



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 12, 2026

Katy Degroot  
Consultant for Arizona Life Sciences, LLC  
Pyxis Regulatory Consulting, Inc.  
535 Dock Street, Suite 211  
Tacoma, WA 98402

Subject: Label Amendment - Registration Review Mitigation for Permethrin  
Product Name: BotanEQS Black  
EPA Registration Number: 93632-1  
Case Number: 473921  
Application Date: 3/23/2021

Dear Katy Degroot:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Permethrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency 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.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the 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 12 months from the date of this letter. After 12 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.

If you have any questions about this letter, please contact Anna Senninger by phone at 202-566-2216, or via email at [Senninger.Anna@epa.gov](mailto:Senninger.Anna@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Dana L. Friedman". The signature is fluid and cursive, with the first name "Dana" being more prominent.

Dana L. Friedman, Chief  
Risk Management and Implementation Branch 1  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs  
U.S. Environmental Protection Agency

ENCLOSURE: Stamped label

{Note to reviewer: [Text] in brackets denotes optional language.}

{Note to reviewer: {Text} in braces denotes where in the final label text will appear, notes to reviewer or directional information.}

**{FRONT PANEL}**

Permethrin	GROUP	3A	INSECTICIDE
------------	-------	----	-------------

## BotanEQS Black

[Contains permethrin, pyrethrins, and piperonyl butoxide, the active ingredients used in UltraShield® EX.]
--

[BotanEQS Black is not manufactured or distributed by W.F. Young, Inc., seller of UltraShield® EX.]
---

{Note to reviewer: The above comparison statement and subsequent disclaimer will always appear together.}

[Weatherproof Insecticide [&] [and] Repellent]

[Field tested and proven effective]

[Kills and repels [biting and nuisance flies, gnats, mosquitoes on horses, ponies and foals (over 12 weeks of age) [for 17 days]]

[Kills and repels biting and nuisance flies, ticks that may carry Lyme Disease and mosquitoes including the Culex species that may transmit West Nile Virus]

[Long-lasting repellency that protects and stays active for up to 17 days]

[Weatherproof formula [binds to the hair shaft to repel and protect from bugs, sun, sweat, water, dust and dirt [for 17 days]]

[[Sun] [Sweat] [water and rain] proof formula [that produces a shine that shields]]

[Stays active for up to 17 days]

[17-day[waterproof][pasture] protection]

**{See Optional Marketing Claims at end of label}**

**Active Ingredients:**

Permethrin\* .....0.50%

Pyrethrins .....0.10%

Piperonyl Butoxide\*\* .....1.00%

**Other Ingredients** .....98.40%

**Total** .....100.0%

\*cis/trans ratio: Min. 35% (+-) trans.

\*\* (butylcarbityl)(6-propylpiperonyl) ether and related compounds

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

[See] [inside/side/back] [label] [booklet/panel] [for] [First Aid][,] [additional] [Precautionary Statements][,]  
[and] [Directions for Use] [including] [Storage and Disposal] [instructions][.]

**EPA Reg No. 93632-1**

**EPA Est. No.**

**Distributed by:**

Arizona Life Sciences, LLC

3818 E Meadowbrook Ave

Phoenix, AZ 85018

[Made in U.S.A.]

Net Contents: \_\_\_\_ [fluid ounces] [fl. oz.] [mL]

**ACCEPTED**

Feb 12, 2026

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 93632-1

**{SIDE PANEL/BACK PANEL/INSIDE BOOKLET}**

{Note to reviewer: The booklet format will include the securely attached base label found at the end of this document.}

FIRST AID	
If in eyes:	<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>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide concerns), call National Pesticide Information Center at 1-800-858-7378.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**DO NOT USE ON CATS OR KITTENS.** Do not treat cats or their bedding. This product may be toxic or potentially fatal if applied to or ingested by cats or kittens.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treated area. Do not apply directly to or near water. Drift and run-off from treated areas may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate. See Directions for Use for additional precautions and requirements.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product to allow it to drift to blooming crops if bees are visiting the treatment area.

**PHYSICAL & CHEMICAL HAZARDS**

**Combustible.** Do not use or store near heat or open flame. Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

**READ ENTIRE LABEL BEFORE EACH USE  
WHEN USED ON ANIMALS – USE ONLY ON HORSES, PONIES, FOALS (Over 12  
Weeks of Age)**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For both indoor and outdoor use. Do not allow to enter indoor or outdoor drains. Follow proper disposal procedures on this label.

No permita la entrada a desagües internos o externos. Siga las indicaciones del etiquetado para el desecho apropiado del producto.



{Note to reviewer: Pictogram will be legible (i.e. no smaller than 1.5 square centimeters or 0.25 square inches unless this size is greater than 10% of the size of the label)}

## SPRAY DRIFT ADVISORIES

### Handheld Technology Applications:

- Take precautions to minimize spray drift.

#### USE RESTRICTIONS

- Do not store near or use with oxidizing agents.
- This product is not for use on foals less than 12 weeks of age.
- This product is not for use on [animals] [horses] intended for human consumption.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces or wash them before use.
- Do not wet articles to point of runoff or drip.
- Remove pets, birds and cover fish aquariums before spraying.
- {Note to reviewer: the following additional restrictions will be included on labeling which includes premise treatments.}
- Do not apply as a space, broadcast or spot treatment to indoor surfaces at residential sites.
- All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
  1. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
  2. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
  3. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level.
- Spot treatments must not exceed two square feet in size (for example, 2ft. by 1 ft or 4 ft. by 0.5 ft.).
- Except when applying directly to horses, 1) do not allow adults, children or pets to enter the treated area until sprays have dried; 2) do not apply this product in away that will contact adults, children or pets either directly or through drift. Exit area immediately and remain outside the treated area until sprays have dried.
- Do not use treated article until spray has dried.
- Application is prohibited directly into sewers or drains or to any area like a gutter where drainage to sewers, storm drain during or after application, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply or irrigate to the point of runoff.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

**HOLD CONTAINER UPRIGHT. SHAKE WELL BEFORE USING.**

*{Spray or wipe-on packaging instructions:}*

Spray or wipe-on. Protect your horses. Ready to use. No mixing necessary. This water-based formulation may be applied directly with spray applicator or as a wipe-on.

*{OR}*

*{Ready-to-use roll-on packaging instructions:}*

Ready to use. No mixing necessary.

17-day weatherproof formula provides long-lasting repellency and protection from biting and nuisance flies, gnats, ticks and mosquitoes. This unique formula also contains multiple sunscreens and coat conditioners including Aloe and Lanolin and it is scented with Citronella.

**HORSES, PONIES, AND FOALS (Over 12 Weeks of Age):**

Kills and repels biting and nuisance flies, gnats, mosquitoes and ticks for up to 17 days. Kills Horse Flies, Stable Flies, Face Flies, Horn Flies, Deer Flies, House Flies, Black Flies, Cluster Flies, Sciarid Flies, Gnats, Midges, Punkies, No-See-Ums, Deer Ticks, Lone Star Tick, Chiggers, American Dog Ticks, Brown Dog Ticks, Gulf Coast Ticks, Fleas and Lice.

*{Spray or wipe-on packaging instructions:}*

**USE AS A WIPE OR A SPRAY:** This product may be applied either as a wipe or as a spray. When applying as a wipe or on the horse's face, always use a soft cloth. First, brush animal to remove excess dirt and dust. Spray or wipe horse's entire body while brushing against the lay of the coat to ensure adequate coverage. Avoid getting spray into horse's eye, nose or mouth.

Do not wet skin or apply to the point of dripping or exceed two ounces per application. Reapply every 7- to 10 days under normal conditions for initial applications. As protection builds, reapply every 12 to 17 days as needed. Also, reapply each time animal is washed or exposed to heavy rain for best results. After application, brush thoroughly to bring out bright sheen on the coat.

*{OR}*

*{Ready-to-use roll-on packaging instructions:}*

Do not wet skin or apply to the point of dripping or exceed two ounces per application. Reapply each time animal is washed or exposed to heavy rain for best results. After application, brush thoroughly to bring out bright sheen on the coat.

Remove cap from bottle. Apply around horse's and pony's nose, eyes, ears and mouth. May also be used as a spot treatment on areas where flies gather. Avoid direct

application to eyes, nose and mouth. Replace cap after use. For initial treatment, apply daily for 2 to 3 days.

*{Spray or wipe-on packaging instructions:}*

#### **DOGS SLEEPING QUARTERS**

Spray around baseboards, windows, door frames, wall cracks, and localized areas of floors. The pet's bedding areas should be sprayed. Spray old bedding or replace with fresh bedding.

**DO NOT USE ON CATS OR KITTENS.** Do not treat cats or their bedding. This product may be toxic or potentially fatal if applied to or ingested by cats or kittens.

*{Spray or wipe-on packaging instructions:}*

**USE AS A PREMISE SPRAY:** Kills insects on contact: Carpenter Bees, American Cockroaches, Asian Cockroaches, Brown Banded Cockroaches, German Cockroaches, Oriental Cockroaches, Smokey Brown Cockroaches, Black Widow Spiders, Cellar Spiders, Fire Ants, Carpenter Ants, Pharaoh Ants, Foraging Ants, Grain Mites, Clover Mites, Beetles (including Carpet, Flat Grain, Flour, Cigarette, Confused Flour, Drugstore, Lesser Grain Borer, Merchant Grain, Sawtoothed Grain, Warehouse, Red Flour, Ground, Elm Leaf and Rice Weevils), Palmetto Bugs, Water Bugs, Cadelles, Indian Meal Worms, Sowbugs, Boxelder Bugs, Earwigs, Pillbugs, Firebrats, Silverfish, Clothes Moths, Booklice, Centipedes, Millipedes, Crickets, Earwigs, Scorpions, flying moths (Almond, Chocolate, Tobacco, Indian Meal and Angoumois Grain and other flying moths). Spray in areas where insects congregate. Apply at a rate of 1 gallon per 1000 sq. ft. [1 quart [32 oz] per 250 sq. ft.] [1 oz per 8 sq. ft.]. Direct spray to contact insects for rapid knockdown and kill. Treat surfaces to ensure thorough coverage but avoid runoff. To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structure surfaces and plants. Spray around door facings and screens to render area unattractive to insects. This will help to repel insects and prevent entrance into building.

### **STORAGE AND DISPOSAL**

**Pesticide Storage:** Store in a cool, dry (preferably locked) place that is away from heat or open flame, in an area that is protected from freezing (above 32°F) and is also inaccessible to children and animals.

**Pesticide Disposal and Container Handling:** Non-refillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. Do not pour or dispose down-the-drain or sewer. Call your local solid waste Agency for local disposal options.

UltraShield® is a registered trademark of W.F. Young, Inc.

[EPA Approval Date]

*{Optional Marketing Claims}*

[Bug: fly, mosquito, tick, gnat]

[weather Graphics] {see representations below}

[Kills [&Repels] 73 species]

[[Also] contains multiple sunscreens and coat conditioners including Aloe and Lanolin]

[[and is] scented with Citronella]

[Performance is not affected by water, sweat, sun, dust or dirt]

[Stops bugs before they bite]

[Blocks bugs from biting]

[24 hours a day 7 days a week for up to 17 days]

[24 hours a day for 17 days pest protection]

[24/7 pest protection]

[Round-the-clock protection for horses turned out in or living in pasture environments]

[Works day and night]

[For use on horses, ponies and foals (over 12 weeks of age)]

[Knockdown [kill and repellency protects for up to 17 days]]

[Even Coverage]

[Sweat[-proof] and waterproof fly repellent formula]

[For Use On Horses & Ponies [and][&] foals (over 12 weeks of age)]

[Repels & Kills deer ticks that may transmits Lyme disease]

[Contains sunscreen]

[Water-Base Formula]

[Water-Base with Sunscreen]





{SECURELY ATTACHED BASE LABEL IF BOOKLET IS USED}

## BotanEQS Black

### Active Ingredients:

Permethrin*	0.50%
Pyrethrins	0.10%
Piperonyl Butoxide**	1.00%
Other Ingredients	98.40%
Total	100.0%

\*cis/trans ratio: Min. 35% (+-) trans.

\*\*(butylcarbityl)(6-propylpiperonyl) ether and related compounds

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If in eyes:</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>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide concerns), you may call National Pesticide Information Center at 1-800-858-7378.	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**DO NOT USE ON CATS OR KITTENS.** Do not treat cats or their bedding. This product may be toxic or potentially fatal if applied to or ingested by cats or kittens.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treated area. Do not apply directly to or near water. Drift and run-off from treated areas may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate. See Directions for Use for additional precautions and requirements.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not

apply this product to allow it to drift to blooming crops if bees are visiting the treatment area.

### PHYSICAL & CHEMICAL HAZARDS

**Combustible.** Do not use or store near heat or open flame.

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

## STORAGE AND DISPOSAL

**Pesticide Storage:** Store in a cool, dry (preferably locked) place that is away from heat or open flame, in an area that is protected from freezing (above 32°F) and is also inaccessible to children and animals.

**Pesticide Disposal and Container Handling:** Non-refillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. Do not pour or dispose down-the-drain or sewer. Call your local solid waste Agency for local disposal options.

[See] [inside/side/back] [label] [booklet/panel] [for] [additional] [Precautionary Statements][.] [and] [Directions for Use][.]

EPA Reg No. 93632-1

EPA Est. No.

### Distributed by:

Arizona Life Sciences, LLC  
3818 E Meadowbrook Ave  
Phoenix, AZ 85018.

Net Contents: \_\_\_\_ [fluid ounces] [fl. oz.] [mL]