



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (7505P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

64321-17

Date of Issuance:

11/29/21

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BioKill Brand with Pyrethrum

Name and Address of Registrant (include ZIP Code):

Rebecca M. Horton  
 Consultant/Agent  
 Jesmond Holding AG  
 P.O. Box 1019  
 Salem, VA 24153-1019

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Elizabeth Fertich, Product Manager 4  
 Invertebrate & Vertebrate Branch 1, Registration Division(7505P)  
 Office of Pesticide Programs

Date:

11/29/21

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Pyrethrin GDCI- 069001-1850

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 64321-17.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 11/2/2021

If you have any questions, please contact Vanessa Emerson by phone at 202-566-2663, or via email at [emerson.vanessa@epa.gov](mailto:emerson.vanessa@epa.gov).

Enclosure

{NOTE TO REVIEWER [ ] Indicates alternate or optional wording. {} Indicates notes to Reviewer that will not appear on the final label}

{Front Panel}

# BIO KILL® brand with Pyrethrum

A micro-encapsulated water suspension for HOUSEHOLD [RESIDENTIAL] USE insecticide  
Ready-to-Use

**Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7)..... 0.1%

Piperonyl Butoxide (CAS No. 51-03-6)..... 0.5%

**Other Ingredients:** ..... 99.4%

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

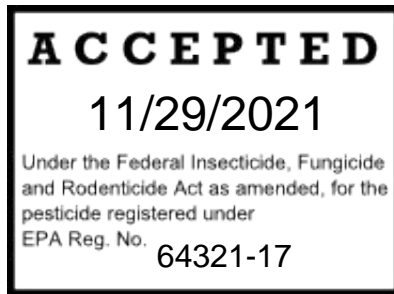
**Keep Out of Reach of Children**

**[CAUTION]** {Use of signal word optional based on Category IV Acute Toxicity}

[[See back [side/other] panel(s) [attached booklet/enclosed insert] for additional Precautionary Statements [and Complete Directions for Use]]

{Precautionary Statement referral text to be featured when final printed marketing label includes outdoor use}

**NET CONTENTS:** [1 GAL (3.785 liters)]  
[1 QT (32 fl oz) (946.3 mL)]  
[24 fl oz (709.8 mL)]



{Optional marketing Statements to appear on front or other label panels}

For indoor and [or] outdoor use

Pyrethrins are made from Chrysanthemum flowers

Use in [and around] homes [, pet quarters] [, apartments] [, bathrooms] [, boats] [, cabinets] [, cabins] [, closets] [, condominiums] [, floor drains] [, dwellings] [, garbage cans] [, garbage compactors] [, garages] [, kitchens] [, mobile homes] [, patios] [, recreational vehicles] [, storage areas] [, tents] [, hobby greenhouses] [, bedding plants] [, foliage] [, potted plants] [, ornamentals]

KILLS			
<b>FLYING INSECTS</b>	<b>INDOOR</b>	<b>OUTDOOR</b>	Read and follow complete Directions for Use  *4 fl. oz. per 25 sq. ft. kills listed pest on non-porous indoor surfaces for up to 2 weeks.  +4 fl. oz. per 25 sq. ft. kills listed pest on non-porous indoor surfaces up to 4 weeks.
	bottle flies, clothes moths*, houseflies+, mosquitoes+, mushroom flies, vinegar flies	Apply directly to listed insects: bottle flies, mushroom flies, vinegar flies	
<b>CRAWLING INSECTS</b>	<b>INDOOR</b>	<b>OUTDOOR</b>	
	ants (excluding pharaoh and carpenter ants), book lice, carpet beetles, cockroaches* [roaches*], crickets, dust mites*, firebrats, fleas (adult and larvae)*, silverfish*, spiders* (excluding black widow and brown recluse)	Apply directly to listed insects: ants (excluding pharaoh and carpenter ants), clover mites, crickets, firebrats, millipedes, pillbugs, sowbugs, spiders (excluding black widow and brown recluse).	
<b>BEETLES AND STORED PRODUCT PESTS</b>	larger grain borers, lesser grain borers, cheese mites, clover mites, grain mites, bean weevils, granary weevils, maize weevils, rice weevils, almond moths, Angoumois grain moths, chocolate moths, cocoa bean moths, Mediterranean flour moths, cadelles, cheese skippers, dark mealworms, lesser mealworms, yellow mealworms, black carpet beetles, carpet beetles, darkling beetles, dermestid beetles, dried fruit beetles, drugstore beetles, flat grain beetles, foreign grain beetles, fungus beetles, ground beetles, hide beetles, merchant grain beetles, Mexican grain beetles, red flour beetles, red horned grain beetles, spider beetles, Trogoderma beetles, white marked spider beetles		
<b>ORNAMENTAL, BEDDING &amp; CONTAINER PLANT PESTS</b>	Apply directly to listed insects: Ants (excluding pharaoh and carpenter ants), Aphids, Beetles (Aster Beetles, Blister Beetles, Cigarette Beetles, Colorado Potato Beetles, Cucumber Beetles, Drugstore Beetles, Flea Beetles, Japanese Beetles, Watermelon Beetles), Spiders (excluding Black Widow & Brown Recluse), Caterpillars (Cabbage Worms, Rose Slugs, Hornworms), Leafhoppers, Mealy Bugs, Moths, Rose Aphids, Rose Chafers, Scale, Spider Mites, Stink Bugs, Tarnished Plant Bugs, Trogoderma, Weevils and Whiteflies.		

Kills mosquitoes, house flies, cockroaches, fleas (adult and larvae) and dust mites on non-porous indoor surfaces for up to 2 weeks

Kills mosquitoes and house flies on non-porous indoor surfaces up to 4 weeks.

Kills cockroaches, fleas (adult and larvae) and dust mites on non-porous indoor surfaces for up to 2 weeks.

Kills ants (excluding pharaoh and carpenter ants) up to 2 hours on non-porous indoor surfaces

Kills mosquitoes, house flies, fleas (adults) and dust mites on porous indoor surfaces up to 2 hours applied at the rate of 4 fl. oz. per 25 sq. ft..

Use as a direct spray to kill listed pests that harborage in ornamental gardens and container plants.

BIO KILL® brand Pyrethrum is an insecticide-acaricide liquid, micro-encapsulated in an aqueous suspension ready for use with a broad spectrum of action. When sprayed directly on listed pests, it lasts up to 2 WEEKS against listed crawling and listed flying insect pests, (houseflies, mosquitoes, cockroaches, ants (excluding pharaoh and carpenter ants), silverfish, fleas, clothes moths, house dust mites and spiders (excluding Black Widow & Brown Recluse)).

*{Back/side/other panels or booklet}*

*{When the product is marketed under a final printed label includes outdoor uses, the following Precautionary Statements/Environmental Hazards text will be featured. If outdoor uses are not included in the final printed label the Precautionary Statements/Environmental Hazards text will not be featured on that marketing label.}*

## **PRECAUTIONARY STATEMENTS**

**Environmental Hazards:** This product is toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to or near water. Drift and runoff may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when disposing of equipment, wash-water or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

## **DIRECTIONS FOR USE**

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

**BIO KILL® brand Pyrethrum** is particularly suitable for both indoor and outdoor areas in direct proximity to residential buildings and their immediate surroundings to combat listed insect pests living in and around human habitations.

### Use Restrictions:

- Apply as a spot [surface] spray only. Do not apply as a space spray.
- Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift. Only protected handlers may be in the area during applications.
- To prevent product runoff, do not over-water the treated area(s) or apply when heavy rain is expected.
- Do not outdoors apply when windy.
- Remove or cover exposed food and drinking water before application.
- Cover exposed food preparation surfaces and utensils during treatment.
- Cover aquariums and birdcages before spraying.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces or clean after treatment and before reuse..
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways and patios except as a spot or crack and crevice treatment.
- During application, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters
- Do not treat companion animals, including dogs, cats, puppies or kittens, with this product.
- Apply this product only as specified on this label.
- Remove pets, birds and cover any water inhabited by fish (such as aquariums and ornamental fish ponds) before spray application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on. (Remove pets, birds, and cover fish aquariums before use.)
- Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application
- Not for use in outdoor residential misting systems.
- Not for use in metered release systems.
- Do not apply more than 1 time/day.

- All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) treatment to soil or vegetation around structures; 2) applications to lawns, turf and other vegetation, 3) applications to building foundations, up to a maximum height of 3 feet.
- Do not make outdoor applications during rain.
- Do not use on food or feed crops, in nurseries or commercial greenhouses.

Use Precautions: Spray a small inconspicuous area of the surface to be treated to ensure color-fastness or staining before full application.

**SHAKE WELL BEFORE USE.** Turn sprayer [nozzle] to on [spray] position. Hold 10-12 inches from surface to be treated and spray until slightly wet. For most effective kill apply as a direct spray hitting as many listed insects as possible. Do not exceed 1 application per day. Do not reapply within 1 day.

#### **INDOOR USE:**

For up to 2 weeks residual control of clothes moths and spiders (excluding Black Widow and Brown Recluse) on non-porous indoor surfaces, 24 fl. oz. will cover 300sq. ft. of surface area [32 fl. oz. will cover 400 sq. ft. of surface area] [1 gal. will treat 1600 sq. ft. of surface area] {Rate equivalent 2 fl. oz./25 sq. ft.}

For up to 2 weeks residual control of mosquitoes, cockroaches, and fleas (adult and larvae) and dust mites on non-porous indoor surfaces, 24 fl. oz. will cover 150 sq. ft. of surface area [32 fl. oz. will cover 200 sq. ft. of surface area] [1 gal. will treat 800 sq. ft. of surface area] {Rate equivalent 4 fl. oz./25 sq. ft.}

For up to 4 weeks residual control of house flies on non-porous indoor surfaces, 24 fl. oz. will cover 150 sq. ft. of surface area [32 fl. oz. will cover 200 sq. ft. of surface area] [1 gal. will treat 800 sq. ft. of surface area] {Rate equivalent 4 fl. oz./25 sq. ft.}

Allow all treated areas to dry thoroughly before use. Apply directly to listed insects where possible. Residual control on non-porous surfaces lasts up to 2 weeks on below listed insects\* when applied at rate of 4 fl. oz. per 25 sq. ft.; control lasts up to 4 weeks on non-porous surfaces on below listed insects+ when applied at 4 fl. oz. per 25 sq. ft.

**Listed Crawling Insects (book lice, cockroaches\* [roaches\*], crickets, dust mites\*, firebrats, silverfish, spiders\* (excluding Black Widow and Brown recluse):** Treat floors, walls, cracks, dark corners, joints, gaps and cavities, hidden surfaces under sinks [wash basins], behind refrigerators and stoves, and where listed insect pests are suspected and usually hiding. Remove materials where spiders like to hide and treat beneath or next to the infested surfaces.

**Listed Flying Insects (bottle flies\*, houseflies+, mushroom flies\*, vinegar flies\*, clothes moths\*, mosquitoes+):** Apply as a spot spray to insect resting [landing] spaces. Apply to inside surfaces of areas where these pests gain entry such as windows, screens and door frames.

**Ants (excluding pharaoh and carpenter ants):** Treat doors, around window frames, cracks and plumbing in- or outlets or other areas of entry.

**Carpet Beetles:** Apply as a spot spray under the edge of floor coverings, under carpets and furniture, and other places where these insects are found.

**Stored Product Pests** (larger grain borers, lesser grain borers, cheese mites, clover mites, grain mites, bean weevils, granary weevils, maize weevils, rice weevils, almond moths, Angoumois grain moths, chocolate moths, cocoa bean moths, Mediterranean flour moths, cadelles, cheese skippers, dark mealworms, lesser mealworms, yellow mealworms, black carpet beetles, carpet beetles, darkling beetles, dermestid beetles, dried fruit beetles, drugstore beetles, flat grain beetles, foreign grain beetles, fungus beetles, ground beetles, hide beetles, merchant grain beetles, Mexican grain beetles, red flour beetles, red horned grain beetles, spider

beetles, Trogoderma beetles, white marked spider beetles): Remove or cover all food prior to application. Apply as a spot or surface spray to localized areas where these pests are found: shelves, cupboards, walls and floors where stored food products are kept. Dispose of all infested food packaging.

**Fleas\*: DO NOT USE THIS PRODUCT ON COMPANION ANIMALS (including DOGS, CATS, PUPPIES OR KITTENS).**

Remove and destroy old pet bedding and replace with clean, fresh bedding after treatment of pet areas. Apply as a surface spray to infested areas around pet beds and resting quarters, adjacent cracks and crevices, along baseboards, windows and door frames, local areas of floors (under the edges of carpets and floor coverings). Do not allow pets to reoccupy treated areas until treated surfaces have dried thoroughly.

#### **OUTDOOR USE:**

Apply directly to listed insects.

**Listed Flying Insects** (bottle flies, , mushroom flies, vinegar flies ): Treat outside surfaces of screens, doors, and window frames where these insects may gain entrance. Also treat around light fixtures where insects alight or congregate.

**Listed Crawling Insects** (ants (excluding pharaoh and carpenter ants), , **clover mites, crickets, firebrats, millipedes, pillbugs, sowbugs, spiders (excluding black widow and brown recluse)**): To kill exposed insects apply directly to listed pests seen on the outside of the building foundation, in cracks and crevices, under siding, wall voids, soffits, around ducts [vents] and openings around windows, doors and pipes.

#### **ORNAMENTALS, BEDDING PLANTS & CONTAINER PLANTS:**

**Kills:** Ants (excluding fire ants, pharaoh ants and carpenter ants), Aphids, Beetles (Aster Beetles, Blister Beetles, Cigarette Beetles, Colorado Potato Beetles, Cucumber Beetles, Drugstore Beetles, Flea Beetles, Japanese Beetles, Watermelon Beetles), Spiders (excluding Black Widow & Brown Recluse), Caterpillars (Cabbage Worms, Rose Slugs, Hornworms), Crickets, Leafhoppers, Mealy Bugs, Moths, Rose Aphids, Rose Chafers, Scale, Spider Mites, Stink Bugs, Tarnished Plant Bugs, Trogoderma, Weevils and Whiteflies.

**To kill listed pests, apply directly to insects harboring on the following outdoor ornamentals, bedding plants and container plants:**

**Bedding Plants:** Alyssum, Aster, Impatiens, periwinkle, Petunia, Salvia and Snapdragon.

**Container Plants, Flowering Plants & Foliage:** African Violets, Aluminum Plant, Begonia, Bird's Nest Fern, Boston Fern, Camellia, Chrysanthemum, Cockscomb, Dahlia, Daisy, Dianthus, Flat Topped Sedum, Floss Flower, Friendship Plant, Gardenia, Geranium, Ivy, Jade Plant (Crassula), Marigold, Oleander, Orchid, Raphiolepis, Sansevieria, Star Jasmine, Strawflower, Swedish Ivy, Sweet Pea, Tahitian Bridal Veil, Velvet Plant (Gynura), Verbena, Wandering Jew, Wax Plant and Zinnia.

**Ornamentals:** Agapanthus, Ageratum, Arrowhead, Azalea, Blue Spruce, Bottlebrush, Cactus, Calendula, Celosia, Coleus, Cotoneaster, Crape Myrtle, Croton, Dogwood, Dusty Miller, Dwarf Lilac, Escallonia, Euonymus, Gazania, Golddust, Honeysuckle, Hydrangea, Ilex, Japanese Aralia, Juniper, Leucothoe, Lilac, Malus, Maranta, Mock Orange, Mugo Pine, Nandina, Ornamental Evergreens, Osmanthus, Pachysandra, Pfitzer Juniper, Photinia, Pineapple Guava, Pittosporum, Podocarpus, Primrose, Privet, Pyracantha, Rhododendron, Rose, Scarlet Sage, Snake Plant, Soft Maple and Spider Plant

Use Precautions: Not all varieties or strains of the plants listed have been tested. Unintentional plant injury or ineffectiveness may result from overspray due to varying environmental or growing conditions. **Prior to treatment, spray a small area of plant [foliage] and observe plant damage and performance prior to full application.** Do not apply to plants in bloom as petal damage may result.



### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container, out of reach of children and pets.

**Pesticide Disposal:** *If partly filled* – Call your local solid waste agency for disposal instructions.

Never place unused product down any indoor or outdoor drain.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. *If empty* –

Place in trash or offer for recycling, if available.

CONDITIONS OF SALE AND WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning this use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and/or handling of this product when such use and/or handling is contrary to label instructions.

JESMOND HOLDING AG

Baarerstrasse 8, CH 6300, Zug, Switzerland

Mailing Address:

PO Box 1019, Salem, VA 24153-1019

{Lot No. to be added at production}