



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

**EPA Reg. Number:**  
 64321-16

**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 Concentrate 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. 64321-16.”

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

{**MASTER LABEL** – contains all information featured on commercial and residential use label versions}

{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 Concentrate with Pyrethrum

A micro-encapsulated water suspension insecticide

**Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7)..... 7.26%  
Piperonyl Butoxide (CAS No. 51-03-6)..... 33.37%

**Other Ingredients:** ..... 59.37%

**Total:** ..... 100.00%

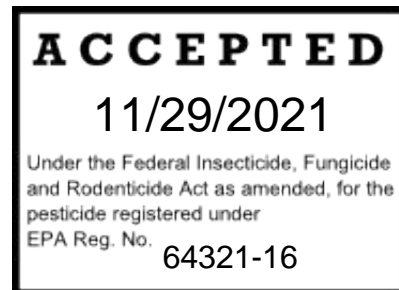
**Keep Out of Reach of Children**

**[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 is for commercial use or residential outdoor use}

**NET CONTENTS:** [5 GAL (18.9 liters)]  
[7 GAL (26.5 liters)]  
[2.5 GAL (9.46 liters)]  
[1 GAL (3.785 liters)]  
[1 QT (32 fl oz) (946.3 mL)]



**{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}**

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

For Indoor Use {when final printed label features indoor uses only}

For Outdoor Use {when final printed label features outdoor use only}

For Indoor and Outdoor Use {when final printed label features both indoor and 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			
FLYING INSECTS	INDOOR	OUTDOOR	Rate – Read and follow complete Directions for Use
	bottle flies, clothes moths*, houseflies*, mosquitoes*, mushroom flies, vinegar flies	Apply directly to listed insects: bottle flies, mushroom flies, vinegar flies	*4 fl. oz. <b>diluted mix</b> per 25 sq. ft. kills on non-porous indoor surfaces for up to 2 weeks.
<b>CRAWLING INSECTS</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>BETLES 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.		

**{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}**

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, cockroaches, fleas (adults) and dust mites on porous indoor surfaces up to 2 hours applied at the rate of 4 fl. oz. **diluted mix** per 25 sq. ft.

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

BIO KILL® brand Concentrate with 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 ant and carpenter ants), silverfish, fleas, clothes moths, house dust mites and spiders (excluding black widow and brown recluse).

**For Use in the following indoor areas:** {any one or all may be listed under commercial use label; only those with {} may be listed when labeled residential use only}

Animal shelters	Animal control centers	Apartments{†}	
Arcades	Attics{†}	Auditoriums	Bakeries
Beverage plants	Bars	Basements{†}	Bathrooms{†}
Boats{†}	Bottling plants	Breweries	Brewery warehouses
Buildings	Buses	Cabins{†}	Cabinets{†}
Cafeterias	Campers{†}	Canneries	
Churches	City missions	Circus tents	Closets{†}
Club houses	Commercial buildings	Communication centers	Condominiums{†}
Concession stands	Court houses	Crawl spaces{†}	Crematoriums
	Day care centers	Delicatessens	Department stores
Diners	Dog houses{†}	Drugstores	Dumpsters
Dwellings{†}	Egg processing plants	Factories	False ceilings{†}
Freight containers	Fruit packing sheds	Funeral parlors	Garbage bins{†}
Garbage cans{†}	Garbage compactors{†}	Garbage trucks	Gas stations
Grocery stores	Homes{†}	Horse stables & barns	Horse trailers
Hospices	Hospitals	Hotels	Indoor eating establishments
Industrial installations	Institution dining areas	Institutions	Jails
Kennels	Laboratories	Laundromats	Lavatories

**{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}**

Libraries	Liquor stores		Livestock hauling equipment{†}
	Locker rooms	Milk rooms	Mills
Mausoleums	Meat packing plants	Mess halls	Mini storage units{†}
Mobile canteens	Mobile homes{†}	Morgues	Mortuaries
Motels	Movie theaters	Museums	Nursing homes
Office buildings	Public buildings	Parking garages	Passenger railroad cars
Peanut warehouses	Pool halls		Poultry plants
Pounds	Prisons	Public storages	Rabbit processing plants
Railroad cars	Recreational vehicles{†}	Research animal quarters	Restaurants
Retail stores	Rice mills	Schools	Ships
Ship holds	Smoke shops	Sports stadiums	Stables
Storage bins	Stores	Supermarkets	
Taverns	Textile mills & warehouses	Theaters	Tobacco factories
Tobacco warehouses	Tool sheds	Trains	Transportation equipment
Trucks	Trailers	Tunnels	Utilities
Utility rooms{†}	Vending machines	Veterinary hospitals	Wall & equipment voids{†}
Warehouses	Washrooms{†}	Wholesale stores	Wine cellars{†}
Wineries	Zoos		

**For Use in the following outdoor areas:** {any one or all may be listed under commercial use label; only those with {†} may be listed when labeled residential use only}

Alleys{†}	Amphitheaters	Amusement parks	Athletic fields	Back yards{†}
Balconies{†}	Baseball fields	Bleachers	Bridges	Car washes
Campgrounds	Circuses	Construction sites	Corrals	Courtyards
Curbs	Drive-in restaurants	Drive-in theaters	Dumpsters{†}	Fair grounds
Feedlots	Front yards{†}	Game fields	Garbage dumps	Gazebos{†}
Golf courses	Grandstands	Junk yards	Kennels	
Manure piles	Outdoor eating establishments	Parks	Parking lots	Patios{†}
Playgrounds	Ranges	Recreational areas	Rest areas	Roadsides
Rooftops		Side yards{†}	Side walks{†}	Stadiums

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

Tennis courts	Truck stops	Underpasses	Utility rooms outdoors{†}	Weigh stations
Wild animal parks	Wood piles{†}	Zoos		

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

*{Precautionary Statements, User Safety Requirements &, User Safety Recommendations featured on commercial use label:}*

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

#### **CAUTION:**

#### **Personal Protective Equipment (PPE)**

Mixers, loaders, applicators, and other handlers must wear: Long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves.

In addition to the above PPE, applicators using high pressure hand-wand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with a MSHA-NIOSH-approval number prefix TC-21C or any N, R, P or HE filter.

#### **User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with product's concentrate. Do not reuse them.

#### **User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Remove PPE immediately after handling this product, wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

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

**Environmental Hazards:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to fish in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

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 to ensure that wind or rain does not blow or wash pesticide off 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 Concentrate with 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

- Do not enter or allow others to enter until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not apply more than 1 time per day.
- Only protected handlers may be in the area during application.
- Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift.
- **DO NOT USE THIS PRODUCT ON COMPANION ANIMALS including DOGS, CATS, PUPPIES OR KITTENS.**
- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- Prior to spraying, cover or remove food and drinking water; and cover food processing surfaces and equipment or clean after treatment and before reuse.
- Do not use in serving areas (dining areas where prepared foods are served) while food is exposed.
- Do not apply when food, feed and/or water is present.
- Remove pets, birds and cover fish aquariums and cover bird cages before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- When applying as a space spray, do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated. Do not allow adults, children or pets to enter the treated area until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- When used in restaurants & food handling and processing facilities: Do not make space spray applications while facility is in operation.
- Prior to space spray applications, cover or remove exposed food; cover food processing surfaces or clean after treatment and before use.



***{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}***

- Do not apply this product in hospital rooms while occupied or in any rooms occupied by the elderly or infirm. Remove patients from room prior to treatment and thoroughly ventilate (2 hr) after application. Do not return patients to room until after ventilation.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking. Do not apply more than 1 time/day.
- Do not apply in barns and stables where animals intended for slaughter or human consumption will be maintained.
- When used in schools: Do not apply to classrooms when in use.
- Do not use in aircraft cabins.
- When applying as a space spray: Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed, and the treated area has been thoroughly ventilated.
- Apply as a spot [surface] spray only. Do not apply as a space spray.
- For outdoor use to kill 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.
- Not for use in outdoor residential misting systems.
- Not for use in metered release systems.
- To prevent product runoff, do not over-water the treated area(s) or apply when heavy rain is expected.
- Do not apply outdoors when windy.
- 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
- 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.**

**UNDILUTED APPLICATIONS – SPACE SPRAY**

{All space spray, fogger and aerosol generator language on the label is for commercial use only. The language below is for commercial use only. No pests of public health concern will be on the label for space spray, fogger and aerosol generator applications.}

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

**INDOOR USE –Space Spray:** Do not allow spray to contact stored food. Apply using an aerosol generator at the rate of 0.25 to 0.50 fluid ounce concentrate per 1,000 cubic feet of space. Close room and shut off all air conditioning or ventilating equipment. Direct the spray toward the ceiling and upper corners of the area and behind obstructions. Do not remain in treated areas after application. Leave room closed at least 1 hour. Ventilate thoroughly before re-entry. Kills exposed accessible stages of boxelder bugs, clover mites, cheese mites, cheese skippers, earwigs, and small flying moths. Also kills common stored product pests: Angoumois grain moths, cadelles, cigarette beetles, confused flour beetles, dark mealworms, drugstore beetles, grain mites, granary weevils, Indian meal moths, Mediterranean flour moths, red flour beetles, rice weevils, saw-toothed grain beetles, spider beetles, tobacco moths and yellow mealworms. Do not exceed 1 application per day. Do not reapply within 1 day.

**INDOOR USE – Aerosol Generator or Fogger Spray:** Do not allow spray to contact stored food. Close room and shut off all air conditioning or ventilating equipment. Adjust sprayer to deliver aerosol droplets. For best results, first apply 8 fl. oz. concentrate per 1,000 sq. ft. as a direct spray, hitting as many listed insects as possible, into all cracks and crevices, behind equipment, cupboards, obstructions or harborage areas, on walls and floors, underneath sinks, behind pipes and other listed places that harbor insects. Next, adjust sprayer to deliver fine mist and apply as a space spray - directing the spray toward the ceiling and upper corners of the room at a rate of 0.5 fl. oz. per 1,000 cubic feet of space. Do not remain in treated areas after application. Vacate treated area and leave room closed for at least 1 hour. Thoroughly ventilate before re-entry. Facilities and equipment in Federally-inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after treatment. Kills exposed accessible stages of boxelder bugs, clover mites, cheese mites, cheese skippers, earwigs, and small flying moths. Also kills common stored product pests: Angoumois grain moths, cadelles, cigarette beetles, confused flour beetles, dark mealworms, drugstore beetles, grain mites, granary weevils, Indian meal moths, Mediterranean flour moths, red flour beetles, rice weevils, saw-toothed grain beetles, spider beetles, tobacco moths and yellow mealworms. Do not exceed 1 application per day. Do not reapply within 1 day.

**For Use in Horse Stables and Barns:** Not for use in areas housing animals used for food or feed. Remove or cover animal feed and water troughs prior to application. Apply using an aerosol generator or fogger spray, adjusted to deliver aerosol droplets at the undiluted rate of 0.2 to 0.7 fl. oz. per 1000 cubic feet. Direct spray toward the upper portions of the enclosure, above animals, filling the room with mist or fog. Kills accessible exposed stages of clover mites, darkling beetles, earwigs, firebrats, silverfish, and small flying moths. Do not exceed 1 application per day. Do not reapply within 1 day.

#### **DILUTED APPLICATIONS – SPACE SPRAY**

**INDOOR USE – Dilute 1 part concentrate in 1 to 10 parts water.** Mix well. Apply using mechanical fogging or spraying equipment. Remove or cover exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Close room and shut off all air conditioning or ventilating equipment. Use 1 to 2 fl. oz. diluted product per 1,000 cubic feet of area, filling the room with mist. Vacate treated area and leave room closed for at least 1 hour. Ventilate before re-entry. Kills accessible stages of almond moths, Angoumois grain moths, cadelles, cereal beetles, cheese mites, cheese skippers, chocolate moths, cigarette beetles, coffee bean weevils, confused flour beetles, dark mealworms, dried fruit beetles, drugstore beetles, earwigs, firebrats, fruit flies, grain mites, granary weevils, hide beetles, Indian meal moths, Khapra beetles, lesser grain beetles, Mediterranean flour moths, red flour beetles, rice weevils, rusty grain beetles, saw-toothed grain beetles, silverfish, small flying moths, spider beetles, warehouse beetles and yellow mealworm. Do not exceed 1 application per day. Do not reapply within 1 day.

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

**For Use in Meat and Poultry Processing Plants:** Use as a space spray only when plant is not in operation. Close room and shut off all air conditioning or ventilating equipment. Cover or remove all exposed food products or packaging materials prior to application and cover food processing surfaces and equipment or clean after treatment and before reuse. Dilute 1 part concentrate with 7 parts water (1% pyrethrins in solution) and use at the rate of 1 fl. oz. per 1,000 cubic feet of room space. Apply the spray into all cracks and crevices in woodwork, walls and floors, underneath sinks, and behind pipes. Contact as many listed insects as possible. After use, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water. Do not exceed 1 application per day. Do not exceed 1 application per day. Do not reapply within 1 day.

{End of commercial use only language.}

#### **INDOOR USE – SURFACE SPRAY**

**Mix [0.5 fl. oz. of this concentrate in 1 quart] [1 fl. oz. of this concentrate in 2 quarts] [2 fl. oz. of this concentrate in 1 gallon (4 quarts)] of water.**

Fill sprayer with water. Hold 10-12 inches from surface to be treated and spray until slightly wet. For most effective kill as a direct spray, use 2 fl. oz. of **diluted** mix per 25 sq ft of surface area to kill mosquitoes, houseflies, cockroaches, fleas and dust mites. For up to 2 weeks residual control of mosquitoes and houseflies, cockroaches, fleas (adult and larvae) and dust mites on non-porous indoor surfaces, use 4 fl oz of **diluted** mix per 25 sq ft of surface area. Do not exceed 1 application per day. Do not reapply within 1 day.

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. **diluted mix** per 25 sq. ft.; control lasts up to 4 weeks on non-porous surfaces on below listed insects<sup>+</sup> when applied at 4 fl. oz. **diluted mix** 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<sup>+</sup>, houseflies<sup>+</sup>, mushroom flies, vinegar flies, clothes moths\*, mosquitoes<sup>+</sup>):** 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 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.

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

**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.

**In-Transit Protection:** To kill accessible stages of listed insects, clean and spray truck beds, boxcars, ship holds and other listed transit equipment before loading. Thoroughly treat walls and floors and lightly spray each layer of cartons or containers as stacked. Do not exceed 1 application per day. Do not reapply within 1 day.

#### **OUTDOOR USE:**

**Mix [0.5 fl. oz. of this concentrate in 1 quart] [1 fl. oz. of this concentrate in 2 quarts] [2 fl. oz. of this concentrate in 1 gallon (4 quarts)] of water.**

Fill sprayer with water. To kill bottle flies, mushroom flies, vinegar flies, ants (excluding pharaoh and carpenter ants), clover mites, crickets, firebrats, millipedes, pillbugs, sowbugs, spiders (excluding black widow and brown recluse), 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 hold 10-12 inches from listed pest and spray until slightly wet. Do not exceed 1 application per day. Do not reapply within 1 day.

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 spray 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.

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

**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.

*{for commercial use products in rigid, non-refillable containers less than or equal to 5 gallons}*

#### **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:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

*{MASTER LABEL cont'd. – contains all information featured on commercial and residential use label versions}*

*{for commercial use products in rigid, non-refillable containers greater than 5 gallons}*

#### **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:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

*{for residential use only products}*

#### **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}

{Sub Label A – Residential Use}

{Front Panel}

# BIO KILL® brand Concentrate with Pyrethrum

A micro-encapsulated water suspension insecticide

**Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7)..... 7.26%  
Piperonyl Butoxide (CAS No. 51-03-6)..... 33.37%

**Other Ingredients:**..... 59.37%

**Total:**..... 100.00%

**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 optional – to be featured when marketing label is for residential outdoor use}

**NET CONTENTS:** [5 GAL (18.9 liters)]  
[2.5 GAL (9.46 liters)]  
[1 GAL (3.785 liters)]  
[1 QT (32 fl oz) (946.3 mL)]

{Sub Label A – Residential Use}

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

For Indoor Use {when final printed label features indoor uses only}

For Outdoor Use {when final printed label features outdoor use only}

For Indoor and Outdoor Use {when final printed label features both indoor and 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			
FLYING INSECTS	INDOOR	OUTDOOR	Rate – Read and follow complete Directions for Use
	bottle flies, clothes moths*, houseflies*, mosquitoes*, mushroom flies, vinegar flies	Apply directly to listed insects: bottle flies, mushroom flies, vinegar flies	*4 fl. oz. <b>diluted mix</b> per 25 sq. ft. kills on non-porous indoor surfaces for up to 2 weeks.  *4 fl. oz. <b>diluted mix</b> per 25 sq. ft. kills 4 weeks on non-porous indoor surfaces.
<b>CRAWLING INSECTS</b>	<b>INDOOR</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)	<b>OUTDOOR</b> 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.		



*{Sub Label A – Residential Use}*

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, cockroaches, fleas (adults) and dust mites on porous indoor surfaces up to 2 hours applied at the rate of 4 fl. oz. **diluted mix** per 25 sq. ft..

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

BIO KILL® brand Concentrate with 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 ant and carpenter ants), silverfish, fleas, clothes moths, house dust mites and spiders (excluding black widow and brown recluse).

**For Use in the following indoor areas:** {any one or all may be listed}

- Apartments
- Attics
- Basements
- Bathrooms
- Boats
- Cabins
- Cabinets
- Campers
- Closets
- Condominiums
- Crawl spaces
- Dog houses
- Dwellings
- False ceilings
- Garbage bins
- Garbage cans
- Garbage compactors
- Homes
- Mini storage units
- Mobile homes
- Recreational vehicles
- Utility rooms
- Wall & equipment voids
- Washrooms
- Wine cellars

*{Sub Label A – Residential Use}*

**For Use in the following outdoor areas:** {any one or all may be listed}

Alleys  
Back yards  
Balconies  
Dumpsters  
Front yards  
Gazebos  
Patios  
Side yards  
Side walks  
Utility rooms outdoors  
Wood piles

*{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 Concentrate with 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.
- Remove or cover exposed food and drinking water before application.
- Cover exposed food preparation surfaces and utensils during treatment.
- Do not apply more than 1 time per day.
- Do not enter or allow others to enter until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Only protected handlers may be in the area during application.
- Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift.
- **DO NOT USE THIS PRODUCT ON COMPANION ANIMALS (including DOGS, CATS, PUPPIES OR KITTENS).**

*{Sub Label A – Residential Use}*

- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- Prior to spraying, cover or remove food and drinking water; and cover food processing surfaces and equipment or clean after treatment and before reuse.
- Do not use in serving areas (dining areas where prepared foods are served) while food is exposed.
- Do not apply when food, feed and/or water is present.
- Remove pets, birds and cover fish aquariums and bird cages before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- For outdoor use to kill 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.
- To prevent product runoff, do not over-water the treated area(s) or apply when heavy rain is expected.
- 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 outdoors when windy.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways and patios except as a spot or crack and crevice treatment. 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.**

**INDOOR USE – SURFACE SPRAY**

**Mix [0.5 fl. oz. of this *concentrate* in 1 quart] [1 fl. oz. of this *concentrate* in 2 quarts] [2 fl. oz. of this *concentrate* in 1 gallon (4 quarts)] of water.**

Fill sprayer with water. Hold 10-12 inches from surface to be treated and spray until slightly wet. For most effective kill as a direct spray, use 2 fl. oz. of **diluted** mix per 25 sq ft of surface area to kill mosquitoes, houseflies, cockroaches, fleas and dust mites. For up to 2 weeks residual control of mosquitoes, houseflies, cockroaches, fleas (adult and larvae) and dust mites on non-porous indoor surfaces, use 4 fl oz of **diluted** mix per 25 sq ft of surface area. Do not exceed 1 application per day. Do not reapply within 1 day. Allow all treated areas to dry thoroughly before use. Apply directly to listed insects where possible.

*{Sub Label A – Residential Use}*

Residual control on non-porous surfaces lasts up to 2 weeks on below listed insects\* when applied at rate of 4 fl. oz. **diluted mix** per 25 sq. ft.; control lasts up to 4 weeks on non-porous surfaces on below listed insects+ when applied at 4 fl. oz. **diluted mix** 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 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:**

**Mix [0.5 fl. oz. of this concentrate in 1 quart] [1 fl. oz. of this concentrate in 2 quarts] [2 fl. oz. of this concentrate in 1 gallon (4 quarts)] of water.**

Fill sprayer with water. To kill bottle flies, mushroom flies, vinegar flies, ants (excluding pharaoh and carpenter ants), clover mites, crickets, firebrats, millipedes, pillbugs, sowbugs, spiders (excluding black widow and brown recluse), 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 hold 10-12 inches from listed pest and spray until slightly wet. Do not exceed 1 application per day. Do not reapply within 1 day.

Apply directly to listed insects.

{Sub Label A – Residential Use}

**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 spray 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}

{Sub Label B – Commercial Use}

{Front Panel}

## BIO KILL® brand Concentrate with Pyrethrum

A micro-encapsulated water suspension insecticide

**Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7)..... 7.26%

Piperonyl Butoxide (CAS No. 51-03-6)..... 33.37%

**Other Ingredients:** ..... 59.37%

**Total:** ..... 100.00%

**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 optional – to be featured when marketing label is for commercial use }

**NET CONTENTS:**      [5 GAL (18.9 liters)]  
                                 [7 GAL (26.5 liters)]  
                                 [2.5 GAL (9.46 liters)]  
                                 [1 GAL (3.785 liters)]  
                                 [1 QT (32 fl oz) (946.3 mL)]

{Sub Label B – Commercial Use}

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

For Indoor Use {when final printed label features indoor uses only}

For Outdoor Use {when final printed label features outdoor use only}

For Indoor and Outdoor Use {when final printed label features both indoor and 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			
FLYING INSECTS	INDOOR	OUTDOOR	Rate – Read and follow complete Directions for Use
	bottle flies, clothes moths*, houseflies+, mosquitoes+, mushroom flies, vinegar flies	Apply directly to listed insects: bottle flies, mushroom flies, vinegar flies	*4 fl. oz. <b>diluted mix</b> per 25 sq. ft. kills on non-porous indoor surfaces for up to 2 weeks.  *4 fl. oz. <b>diluted mix</b> per 25 sq. ft. kills 4 weeks on non-porous indoor surfaces.
<b>CRAWLING INSECTS</b>	<b>INDOOR</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)	<b>OUTDOOR</b> 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>BETLES 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.		



*{Sub Label B – Commercial Use}*

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, cockroaches, fleas (adults) and dust mites on porous indoor surfaces up to 2 hours applied at the rate of 4 fl. oz. **diluted mix** per 25 sq. ft..

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

BIO KILL® brand Concentrate with 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 ant and carpenter ants), silverfish, fleas, clothes moths, house dust mites and spiders (excluding black widow and brown recluse).

**For Use in the following indoor areas:**

Animal shelters	Animal control centers	Apartments	
Arcades	Attics	Auditoriums	Bakeries
Beverage plants	Bars	Basements	Bathrooms
Boats	Bottling plants	Breweries	Brewery warehouses
Buildings	Buses	Cabins	Cabinets
Cafeterias	Campers	Canneries	
Churches	City missions	Circus tents	Closets
Club houses	Commercial buildings	Communication centers	Condominiums
Concession stands	Court houses	Crawl spaces	Crematoriums
	Day care centers	Delicatessens	Department stores
Diners	Dog houses	Drugstores	Dumpsters
Dwellings	Egg processing plants	Factories	False ceilings
Freight containers	Fruit packing sheds	Funeral parlors	Garbage bins
Garbage cans	Garbage compactors	Garbage trucks	Gas stations
Grocery stores	Homes	Horse stables & barns	Horse trailers
Hospices	Hospitals	Hotels	Indoor eating establishments
Industrial installations	Institution dining areas	Institutions	Jails
Kennels	Laboratories	Laundromats	Lavatories
Libraries	Liquor stores		Livestock hauling equipment
	Locker rooms	Milk rooms	Mills
Mausoleums	Meat packing plants	Mess halls	Mini storage units

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Mobile canteens	Mobile homes	Morgues	Mortuaries
Motels	Movie theaters	Museums	Nursing homes
Office buildings	Public buildings	Parking garages	Passenger railroad cars
Peanut warehouses	Pool halls		Poultry plants
Pounds	Prisons	Public storages	Rabbit processing plants
Railroad cars	Recreational vehicles	Research animal quarters	Restaurants
Retail stores	Rice mills	Schools	Ships
Ship holds	Smoke shops	Sports stadiums	Stables
Storage bins	Stores	Supermarkets	
Taverns	Textile mills & warehouses	Theaters	Tobacco factories
Tobacco warehouses	Tool sheds	Trains	Transportation equipment
Trucks	Trailers	Tunnels	Utilities
Utility rooms	Vending machines	Veterinary hospitals	Wall & equipment voids
Warehouses	Washrooms	Wholesale stores	Wine cellars
Wineries	Zoos		

**For Use in the following outdoor areas:**

Alleys	Amphitheaters	Amusement parks	Athletic fields	Back yards
Balconies	Baseball fields	Bleachers	Bridges	Car washes
Campgrounds	Circuses	Construction sites	Corrals	Courtyards
Curbs	Drive-in restaurants	Drive-in theaters	Dumpsters	Fair grounds
Feedlots	Front yards	Game fields	Garbage dumps	Gazebos
Golf courses	Grandstands	Junk yards	Kennels	
Manure piles	Outdoor eating establishments	Parks	Parking lots	Patios
Playgrounds	Ranges	Recreational areas	Rest areas	Roadsides
Rooftops		Side yards	Side walks	Stadiums
Tennis courts	Truck stops	Underpasses	Utility rooms outdoors	Weigh stations
Wild animal parks	Wood piles	Zoos		

*{Sub Label B – Commercial Use}*

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

*{Precautionary Statements, User Safety Requirements, User Safety Recommendations & Environmental Hazards featured on commercial use label:}*

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

#### **CAUTION:**

#### **Personal Protective Equipment (PPE)**

Mixers, loaders, applicators, and other handlers must wear: Long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves.

In addition to the above PPE, applicators using high pressure hand-wand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with a MSHA-NIOSH-approval number prefix TC-21C or any N, R, P or HE filter.

#### **User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with product's concentrate. Do not reuse them.

#### **User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Remove PPE immediately after handling this product, wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

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

**Environmental Hazards:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to fish in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

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 to ensure that wind or rain does not blow or wash pesticide off 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 Concentrate with 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

- Do not enter or allow others to enter until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not apply more than 1 time per day.
- Only protected handlers may be in the area during application.
- Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift.
- **DO NOT USE THIS PRODUCT ON COMPANION ANIMALS including DOGS, CATS, PUPPIES OR KITTENS.**
- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- Prior to spraying, cover or remove food and drinking water; and cover food processing surfaces and equipment or clean after treatment and before reuse.
- Do not use in serving areas (dining areas where prepared foods are served) while food is exposed.
- Do not apply when food, feed and/or water is present.
- Remove pets, birds and cover fish aquariums and cover bird cages before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- When applying as a space spray, do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated. Do not allow adults, children or pets to enter the treated area until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- When used in restaurants & food handling and processing facilities: Do not make space spray applications while facility is in operation.
- Prior to space spray applications, cover or remove exposed food; cover food processing surfaces or clean after treatment and before use.
- Do not apply this product in hospital rooms while occupied or in any rooms occupied by the elderly or infirm. Remove patients from room prior to treatment and thoroughly ventilate (2 hr) after

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application. Do not return patients to room until after ventilation.

- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Do not apply more than 1 time/day.
- Do not apply in barns and stables where animals intended for slaughter or human consumption will be maintained.
- When used in schools: Do not apply to classrooms when in use.
- Do not use in aircraft cabins.
- When applying as a space spray: Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed, and the treated area has been thoroughly ventilated.
- Apply as a spot [surface] spray only. Do not apply as a space spray.
- For outdoor use to kill 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.
- Not for use in outdoor residential misting systems.
- Not for use in metered release systems.
- To prevent product runoff, do not over-water the treated area(s) or apply when heavy rain is expected.
- Do not apply outdoors when windy.
- 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
- 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.**

**UNDILUTED APPLICATIONS – SPACE SPRAY**

{All space spray, fogger and aerosol generator language on the label is for commercial use only. The language below is for commercial use only. No pests of public health concern will be on the label for space spray, fogger and aerosol generator applications.}

**INDOOR USE –Space Spray:** Do not allow spray to contact stored food. Apply using an aerosol generator at the rate of 0.25 to 0.50 fluid ounce concentrate per 1,000 cubic feet of space. Close room and shut off all air conditioning or ventilating equipment. Direct the spray toward the ceiling and upper corners of the area and

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behind obstructions. Do not remain in treated areas after application. Leave room closed at least 1 hour. Ventilate thoroughly before re-entry. Kills exposed accessible stages of boxelder bugs, clover mites, cheese mites, cheese skippers, earwigs, and small flying moths. Also kills common stored product pests: Angoumois grain moths, cadelles, cigarette beetles, confused flour beetles, dark mealworms, drugstore beetles, grain mites, granary weevils, Indian meal moths, Mediterranean flour moths, red flour beetles, rice weevils, saw-toothed grain beetles, spider beetles, tobacco moths and yellow mealworms. Do not exceed 1 application per day. Do not reapply within 1 day.

**INDOOR USE – Aerosol Generator or Fogger Spray:** Do not allow spray to contact stored food. Close room and shut off all air conditioning or ventilating equipment. Adjust sprayer to deliver aerosol droplets. For best results, first apply 8 fl. oz. concentrate per 1,000 sq. ft. as a direct spray, hitting as many listed insects as possible, into all cracks and crevices, behind equipment, cupboards, obstructions or harborage areas, on walls and floors, underneath sinks, behind pipes and other listed places that harbor insects. Next, adjust sprayer to deliver fine mist and apply as a space spray - directing the spray toward the ceiling and upper corners of the room at a rate of 0.5 fl. oz. per 1,000 cubic feet of space. Do not remain in treated areas after application. Vacate treated area and leave room closed for at least 1 hour. Thoroughly ventilate before re-entry. Facilities and equipment in Federally-inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after treatment. Kills exposed accessible stages of boxelder bugs, clover mites, cheese mites, cheese skippers, earwigs, and small flying moths. Also kills common stored product pests: Angoumois grain moths, cadelles, cigarette beetles, confused flour beetles, dark mealworms, drugstore beetles, grain mites, granary weevils, Indian meal moths, Mediterranean flour moths, red flour beetles, rice weevils, saw-toothed grain beetles, spider beetles, tobacco moths and yellow mealworms. Do not exceed 1 application per day. Do not reapply within 1 day.

**For Use in Horse Stables and Barns:** Not for use in areas housing animals used for food or feed. Remove or cover animal feed and water troughs prior to application. Apply using an aerosol generator or fogger spray, adjusted to deliver aerosol droplets at the undiluted rate of 0.2 to 0.7 fl. oz. per 1000 cubic feet. Direct spray toward the upper portions of the enclosure, above animals, filling the room with mist or fog. Kills accessible exposed stages of clover mites, darkling beetles, earwigs, firebrats, silverfish, and small flying moths. Do not exceed 1 application per day. Do not reapply within 1 day.

**DILUTED APPLICATIONS – SPACE SPRAY**

**INDOOR USE – Dilute 1 part concentrate in 1 to 10 parts water.** Mix well. Apply using mechanical fogging or spraying equipment. Remove or cover exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Close room and shut off all air conditioning or ventilating equipment. Use 1 to 2 fl. oz. diluted product per 1,000 cubic feet of area, filling the room with mist. Vacate treated area and leave room closed for at least 1 hour. Ventilate before re-entry. Kills accessible stages of almond moths, Angoumois grain moths, cadelles, cereal beetles, cheese mites, cheese skippers, chocolate moths, cigarette beetles, coffee bean weevils, confused flour beetles, dark mealworms, dried fruit beetles, drugstore beetles, earwigs, firebrats, fruit flies, grain mites, granary weevils, hide beetles, Indian meal moths, Khapra beetles, lesser grain beetles, Mediterranean flour moths, red flour beetles, rice weevils, rusty grain beetles, saw-toothed grain beetles, silverfish, small flying moths, spider beetles, warehouse beetles and yellow mealworm. Do not exceed 1 application per day. Do not reapply within 1 day.

**For Use in Meat and Poultry Processing Plants:** Use as a space spray only when plant is not in operation. Close room and shut off all air conditioning or ventilating equipment. Cover or remove all exposed food products or packaging materials prior to application and cover food processing surfaces and equipment or clean after treatment and before reuse. Dilute 1 part concentrate with 7 parts water (1% pyrethrins in solution) and use

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at the rate of 1 fl. oz. per 1,000 cubic feet of room space. Apply the spray into all cracks and crevices in woodwork, walls and floors, underneath sinks, and behind pipes. Contact as many listed insects as possible. After use, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water. Do not exceed 1 application per day. Do not exceed 1 application per day. Do not reapply within 1 day.

**INDOOR USE – SURFACE SPRAY**

**Mix [0.5 fl. oz. of this concentrate in 1 quart] [1 fl. oz. of this concentrate in 2 quarts] [2 fl. oz. of this concentrate in 1 gallon (4 quarts)] of water.**

Fill sprayer with water. Hold 10-12 inches from surface to be treated and spray until slightly wet. For most effective kill as a direct spray, use 2 fl. oz. of **diluted** mix per 25 sq ft of surface area to kill mosquitoes, houseflies, cockroaches, fleas and dust mites. For up to 2 weeks residual control of mosquitoes and houseflies, cockroaches, fleas (adult and larvae) and dust mites on non-porous indoor surfaces, use 4 fl oz of **diluted** mix per 25 sq ft of surface area. Do not exceed 1 application per day. Do not reapply within 1 day.

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. **diluted mix** per 25 sq. ft.; control lasts up to 4 weeks on non-porous surfaces on below listed insects\* when applied at 4 fl. oz. **diluted mix** 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 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.

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**In-Transit Protection:** To kill accessible stages of listed insects, clean and spray truck beds, boxcars, ship holds and other listed transit equipment before loading. Thoroughly treat walls and floors and lightly spray each layer of cartons or containers as stacked. Do not exceed 1 application per day. Do not reapply within 1 day.

**OUTDOOR USE:**

**Mix [0.5 fl. oz. of this concentrate in 1 quart] [1 fl. oz. of this concentrate in 2 quarts] [2 fl. oz. of this concentrate in 1 gallon] of water.**

Fill sprayer with water. To kill bottle flies, mushroom flies, vinegar flies, ants (excluding pharaoh and carpenter ants), clover mites, crickets, firebrats, millipedes, pillbugs, sowbugs, spiders (excluding black widow and brown recluse), 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 hold 10-12 inches from listed pest and spray until slightly wet. Do not exceed 1 application per day. Do not reapply within 1 day.

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 spray 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,



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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.

*{for commercial use products in rigid, non-refillable containers less than or equal to 5 gallons}*

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

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

*{for commercial use products in rigid, non-refillable containers greater than 5 gallons}*

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

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

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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}