

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 3, 2015

Jessica Goldberg
Senior Regulatory Affairs Specialist
Chemsico, Division of United Industries Corporation,
P. O. Box 142642
St. Louis, MO 63114-0642

Subject: Label Amendment – Addition of approved IPM language for bed bugs
Product Name: CHEMSICO HOME INSECT CONTROL BB-C
EPA Registration Number: 9688-327
Application Date: February 13, 2015
Decision Number: 500301

Dear Ms. Goldberg:

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

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

Should you wish to add/retain a reference to 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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6(e). If you have any questions, you may contact Elizabeth Fertich at 703-347-8560 or via email at fertich.elizabeth@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kable Bo Davis', enclosed within a large, hand-drawn oval.

Kable Bo Davis, Product Manager 3
Invertebrate and Vertebrate Branch 1 (IVB1)
Registration Division (7505P)
Office of Pesticide Programs

Chemsico Home Insect Control BB-C

(see back page for optional marketing claims)



Active Ingredient: Cypermethrin.....0.20%
Other Ingredients 99.80%

KEEP OUT OF REACH OF CHILDREN
CAUTION See side for additional precautionary statements.
Net Contents 1 Gallon (3.7L)

STOP. READ ENTIRE LABEL BEFORE USE.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. *For Indoor use only. Do not use on pets.*



People and pets should not be allowed in treated areas until spray has dried.

[SHAKE WELL BEFORE USING
[SPRAYER INSTRUCTIONS]

[How to prime and care for your sprayer:]

- 1. After shaking product well, remove cap from container and replace with sprayer hose and cap assembly. Tighten securely.
- 2. Turn sprayer nozzle one half turn counter-clockwise. Hold sprayer below the level of container and prime by pumping trigger 10 - 15 times until product is dispensed. Adjust nozzle to fine spray or jet stream as needed.
- 3. To store, turn nozzle to "OFF" position and [store with sprayer above level of liquid in container to prevent leakage] [store sprayer on hook located near bottle handle to prevent leakage].
- 4. Avoid contamination of food, feedstuffs and domestic water supplies. All food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets, birds and cover fish aquariums before spraying.

[OPTIONAL DIRECTIONS FOR TRIGGER SPRAYER PRODUCT]
HOW TO USE

- 1. Shake well before each use.
- 2. Adjust nozzle to narrow fan spray, to prevent excessive wetting and waste of product. Spray just enough to cover area to be treated.
- 3. Avoid contamination of food, feedstuffs and domestic water supplies. All food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets, birds and cover fish aquariums before spraying.

[OPTIONAL DIRECTIONS FOR NESTED SPRAYER APPLICATOR]
HOW TO USE

- 1. Shake well before each use.
- 2. Pull tab outward.

3. Rotate lock ring counterclockwise to unlock.
4. Pull sprayer to uncoil tubing.
5. Turn sprayer nozzle one half turn counter-clockwise. Hold sprayer below the level of container and prime by pumping trigger 10 - 15 times until product is dispensed. Adjust nozzle to fine spray or jet stream as needed.
6. To store, turn nozzle to "OFF" position and return sprayer to bottle opening.
7. Drape tubing through slot in the spray handle.
8. Turn lock ring clockwise to lock.
9. Avoid contamination of food, feedstuffs and domestic water supplies. All food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets, birds and cover fish aquariums before spraying.

[OPTIONAL DIRECTIONS FOR AUTO TRIGGER [SPRAYER] DIRECTIONS]

1. Shake well before use.
2. Remove plastic tab near top of sprayer to activate batteries [graphic depiction]
3. Twist nozzle to adjust spray from CLOSE to SPRAY or STREAM. [graphic depiction]
4. [Press the trigger to spray]. Spray just enough to cover area to be treated. Avoid contamination of food, feedstuffs and domestic water supplies. All food-processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets and birds and cover fish aquariums before spraying.
5. Release the trigger to stop spray.

Keep the reusable auto trigger [sprayer] for use on compatible refills.

[OPTIONAL DIRECTIONS FOR CAPTIVE SPRAYER PRODUCT] HOW TO USE

BEFORE USE:

1. Shake well before each use.
2. Peel sticker from flip-top cap and open cap. Discard sticker.
3. Remove sprayer from its slot beneath the bottle handle and remove and discard plastic wrap. Pull black hose tip to completely extend tubing.
4. Firmly press black hose tip into opening in cap until it snaps into place.
5. Hold sprayer below the level of the container and prime by pumping trigger several times until product is dispensed.
6. Adjust nozzle to desired setting.

AFTER USE:

7. To store, turn sprayer nozzle off.
8. DO NOT disconnect hose.
9. Return sprayer to its slot. Hose can be pushed back into sprayer handle.

[OPERATING INSTRUCTIONS FOR EZ SPRAY™] AccuShot Sprayer Directions] (Option A)

1. Remove sprayer from side holder. [Unwrap the tubing] [Gently pull tubing out]. [Graphic depiction]
2. Remove seal from top of cap. Unplug cap. [Graphic depiction]
3. Securely snap the [green] plug into hole on cap. [Graphic depiction]
4. Remove plastic tab near [top] [bottom] of sprayer to activate batteries. [Graphic depiction]
5. Twist nozzle to adjust spray from CLOSE to SPRAY or STREAM. [Graphic depiction]
6. [When priming the sprayer, hold sprayer level to the ground. Sprayer may not prime if it is held at an angle. Once primed, it will spray in any direction. (Graphical representation.)]

[AccuShot Sprayer Directions] (Option B)

1. Remove cap and replace with reusable AccuShot Sprayer. Make sure sprayer cap is tightly closed before use
2. Twist nozzle to adjust spray from CLOSE to SPRAY or STREAM. [Graphic depiction]
3. [When priming the sprayer, hold sprayer level to the ground. Sprayer may not prime if it is held at an angle. Once primed, it will spray in any direction. (Graphical representation.)]
4. Avoid contamination of food, feedstuffs and domestic water supplies. All food-processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets and birds and cover fish aquariums before spraying.

HOW TO USE THE EZ SPRAY™ [AccuShot Sprayer]

- Aim toward target [site] [area to be treated], and away from people and pets.
- [To improve accuracy, use slider to extend wand.][Use slider to extend wand and to improve accuracy.]
- Press the trigger to spray.
- Release the trigger to stop spray.

After use: 1. Twist nozzle completely to CLOSE position. 2. Secure sprayer upright [tip down] in [holster] [holder]. 3. **Failure to adjust nozzle completely to CLOSE position and properly secure sprayer in [holster] [holder] may result in leakage and damage to property or injury to people or animals.**

[Keep reusable AccuShot sprayer for use with Chemsico Home Insect Control BB-C]

To replace batteries: 1. [Slide battery compartment door to unlatch and open.] [Use screwdriver to open battery compartment] [Push release button near nozzle and lift up on battery hatch.] 2. Remove used batteries and insert [four] [two] new AA batteries **in correct positions** as marked per diagram inside of battery

compartment. Never insert the positive end where the negative end belongs and vice versa. **Always** use a complete set of new batteries of the same type when replacing batteries. **Never** mix alkaline, carbon-zinc or rechargeable batteries. 3. Securely close battery compartment door. 4. **Always** follow manufacturer's recommendations for use and disposal of batteries.

Additional Operating Notes: • Do not submerge in water. • Before each use, inspect sprayer carefully, making sure hose is flexible and not kinked, worn or cracked, and that all connections are tight. • When storing sprayer for prolonged periods, remove batteries.

(Option A: Directions for Easy Action Pump)

[EASY ACTION PUMP [SPRAYER] Directions] [HOW TO USE THE EASY ACTION PUMP [SPRAYER]]

1. For the initial use, remove the tie that is securing the handle to the base of the pump.
2. **REMOVE THE WAND** from the holster and **PULL THE HOSE** from the storage compartment.
3. Make sure the sprayer wand is securely tightened to the spray handle. (Graphical representation.)
4. **TURN THE PUMP HANDLE CLOCKWISE** to tightly seal the pump to the bottle and unlock the pump handle for pumping. (Graphical representation)
5. **RAISE THE PUMP HANDLE FROM THE BOTTLE AND PUMP** until you begin to feel resistance. (Graphical representation)
6. Secure the pump handle for carrying by pushing the handle into the base of the pump and turn the handle counterclockwise one quarter-turn to lock. (Graphical representation)
7. **BEGIN SPRAYING** by pushing down on the spray handle trigger. (Graphical representation)
8. **ROTATE THE NOZZLE AT THE TIP** of the wand to adjust the spray from a direct spray to a broadcast mist. (Graphical representation)
9. For continuous spray, push the trigger down and slide it forward to lock. **SLIDE THE TRIGGER BACK TO RELEASE** it from the lock position.

Note: If sprayer does not function properly, remove nozzle cover and check nozzle and holes in rubber component for obstructions. Replace nozzle cover and use as instructed above.]

Where to use [Graphic showing Indoor treatment sites.]

For control of carpet beetles, thoroughly spray along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets and on shelving, and wherever else insects are seen or suspected.

For control of fleas, thoroughly spray pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, window and door frames and localized

areas of floor and floor covering where fleas may be present. Pet bedding should be replaced with clean fresh bedding after treating the area. **Do not treat pets with this product.** To control the source of flea infestations, pets should be treated with a product registered for application to animals.

Note: Test inconspicuous sample of fabric or rug for staining before use. Check carpet manufacturer's warranty and care and maintenance information before using product on your specific brand of carpeting.

For control of bed bugs and bed bug eggs: Apply as a spot treatment to cracks and crevices around baseboards, floorboards, bedboards and walls [night stand and dresser drawers][picture frames and wall hangings][crown molding][door and window casings]. Allow treated surfaces to dry thoroughly before use. Inspect area and repeat after 2 weeks [if necessary] while bed bugs are present. For persistent infestations consult a professional applicator. **To treat beds for bed bugs and bed bug eggs:** Disassemble the bed frame and remove bedding. Do not apply product to bedding. Apply this product to the bed frame, mattress and box spring. Application to mattresses and box springs is intended for treatment of seams, edges and tufts [creases][folds][indentations][buttons][vent holes] only. Do not saturate the mattress or box spring. Do not treat the entire surface of the mattress or box spring. Allow the spray to dry before using the mattress and/or box spring. Also apply the product to cracks and crevices in the sleeping area such as baseboards, behind pictures/wall hangings, along and underneath carpet edges and other articles/furniture in the bedroom or sleeping area. Do not apply to stuffed animals or toys. **To treat luggage for bed bugs and bed bug eggs:** Remove contents and spot treat areas that may harbor bed bugs and bed bug eggs, concentrating on corners, pockets inside the luggage and seams. Allow luggage to dry before reuse.

STORAGE AND DISPOSAL

Pesticide Storage: Store in cool dry area away from heat or open flame.
Pesticide Disposal: Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

STORAGE AND DISPOSAL (For use with Auto Trigger [Sprayer])

Pesticide Storage: Store in original container in a cool, dry area away from heat or open flame and in an area inaccessible to children and pets. Keep from freezing.
Pesticide Disposal: Reusable Auto Trigger [Sprayer]: Do not discard. Keep the Auto Trigger [Sprayer] for use on Chemsico Home Insect Control BB-C. **If Empty:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

STORAGE AND DISPOSAL (FOR EZ SPRAY™)

Pesticide Storage: Turn the nozzle to "CLOSE" position. To prevent leakage, attach sprayer to clip. Store this product only in its original container in a secure storage area away from sources of heat or open flame and in an area inaccessible to children and pets. Keep from freezing. **Pesticide Disposal:** Nonrefillable container. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

STORAGE AND DISPOSAL (EASY ACTION PUMP [SPRAYER])

Pesticide Storage: Slowly turn the pump handle counterclockwise to loosen the pump mechanism from the bottle to release pressure. Turn the handle back clockwise to seal the unit for storage. Turn the handle counterclockwise one quarter-turn to lock the handle. Push the hose back into the storage compartment. Place the wand back in the holster. Store this product in its original container in a secure storage area. **Pesticide Disposal: If empty:** Nonrefillable container. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

STORAGE AND DISPOSAL (For AccuShot Sprayer)

Pesticide Storage: Turn the nozzle to "CLOSE" position. To prevent leakage, attach sprayer to clip. Store this product only in its original container in a secure storage area away from sources of heat or open flame and in an area inaccessible to children and pets. Keep from freezing. **Pesticide Disposal:** Do not discard the AccuShot Sprayer. Keep the AccuShot Sprayer for use on Chemsico Home Insect Control BB-C. Nonrefillable container. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear (specify protective eyewear, if appropriate). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present after the first 5 minutes then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 1-800-917-5431 for emergency medical treatment information.

Environmental Hazards

This product is toxic to fish and other aquatic organisms. 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.

NOTICE: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.

[Questions or comments ? Call toll free 1-800-332-5553.]

[If you are not satisfied with this product for any reason, send your written request for a refund to the address below, together with the original dated store receipt showing the price you paid. Please allow 6-8 weeks for processing.]**

Made in the USA for Chemsico
Division of United Industries Corporation
PO Box 142642
St. Louis, MO 63114-0642 EPA Reg. No: 9688-
EPA Est. No. 9688-MO-1 © 2014

OPTIONAL MARKETING CLAIMS

1. Kills fleas
2. Kills both adult and pre-adult (larvae) fleas
3. Kills by contact
4. Kills bed bug adults and eggs [by contact]
5. Kills bed bugs and bed bug eggs [by contact]
6. Use indoors
7. Ready-to-use
8. Economical do-it-yourself [pest][bed bug] control
9. Do-it-yourself [pest][bed bug] control
10. Easy to use ready spray
11. Clear Formula
12. Clear Formula – Non-staining, No odor
13. Non-Staining Clear Formula

14. No Odor Clear Formula
15. No lingering odor
16. No oily residue
17. Unscented
18. Leaves no odor
19. No Odor
20. Odor Free
21. Non-Staining
22. Water-based
23. Water-based (Non-staining, [Leaves] no odor)
24. Non-staining formula that leaves no odor
25. Easy Storage Sprayer
26. Apply to luggage [and luggage racks] to kill bed bugs and bed bug eggs
27. Use [in] [on] [cracks], [crevices], [baseboards], [bed frames], [and luggage] [box springs] [upholstered furniture] [sofa beds] [tapestries] [wall hangings] [picture frames] [floorboards] [carpeting] [carpet tack strips] [crown molding] [door and window casings] [chairs] [to kill bed bugs and their eggs]
28. Kills bed bugs by contact
29. [bed bug] treatment
30. Spot treat Mattress tufts, folds, vent holes, buttons, creases, indentations and seams [box springs]
31. Also kills Fleas, and Dust Mites
32. Inspect area and apply every [two][2] weeks while bed bugs are present
33. **Guaranteed to work [or your money back] [Bed bug] Treatment
34. Results Guaranteed**
35. **Guaranteed results [or your money back]
36. 4 AA Alkaline Batteries Included [Battery Powered EZ Spray]
37. EzSpray Power Action Sprayer [batteries included]
38. [Please Read Before Use] – When Priming, Hold sprayer Level to the Ground. If Held at an Angle, Sprayer Will not Prime
39. EzSpray Easy Setup
40. Continuous Spray
41. Increased Pressure for (5 [10] [X] Minute) Continuous Spray
42. Up to 5 [10] [X] minutes of Continuous Spray
43. Adjustable Spray Patterns for [Spot Application][Covers large area]
44. Extended Wand for Hard-to-Reach Areas
45. Locking Trigger Reduces Hand Fatigue
46. Easy Action Pump [Sprayer]
47. No Assembly Required
48. Reusable Battery Sprayer
49. Reusable Auto Trigger [Sprayer]
50. For Use with Reusable Auto Trigger [Sprayer]
51. Refill
52. Continuous Action Power Sprayer
53. Continuous Power Trigger
54. Press and Hold Technology
55. [New] AccuShot
56. [New] AccuShot Sprayer

57. [Just] Aim & Spray
58. Comfort-Power-Precision
59. With Extendable Wand [for improved accuracy]
60. With Adjustable Wand [for improved accuracy]
61. For use with Reusable AccuShot Sprayer
62. Use [New] AccuShot Sprayer Indoors or Outdoors
63. Reduces hand fatigue [when spraying around entire home]
64. [X] AA batteries included

OPTIONAL PRODUCT FACTS BOX

Where to Use: Spot treat mattress tufts, folds, vent holes and seams.
Application: Spray intended use areas until damp. DO NOT SATURATE.
How Often to Use: Inspect area and apply every two weeks while bed bugs are present.

(Note to Reviewer: The text on this page will appear on the back label panel of the product)

[Bed Bug Home Protection Plan] [Bed Bug Home Protection Cycle] [Bed Bug 3-Step Process]
[GRAPHICAL ICON identifying the steps: Detection, Treatment, Prevention]



FOR BEST RESULTS USE THIS PRODUCT AS PART OF A COMPREHENSIVE BED BUG TREATMENT PLAN. Visit our website, www.hotshot.com, for more information.

Treating bed bugs as part of a cycle is key to gaining control. Because infestations may be at a different part of the cycle when treatment begins, the information below will help you determine the best place to begin.

DETECTION

If you have not seen any bed bugs or are in prevention mode and want to ensure you are still bed bug free, you want to detect using a combination of the following products:

- [Hot Shot® Bed Bug] Interceptor
- [Hot Shot Bed Bug] Coaster
- [Hot Shot® Bed Bug] Glue Traps

TREATMENT

If you have detected bed bugs by using the products above, being bitten or observing bed bugs, bed bug eggs or excrement in mattress tufts and bedding, you want to choose from one or more of the following product types depending on your needs:

- Use an aerosol product registered to treat bed bugs [and bed bug eggs] in cracks and crevices.
- Use a ready-to-use liquid product registered to treat bed bugs [and bed bug eggs] for spot treatment.
- Use a total release fogger registered to treat bed bugs [and bed bug eggs] for areas such as carpet, mattress & box spring surfaces and furniture surfaces.
- Use a mattress treatment kit registered to treat bed bugs [and bed bug eggs] for mattresses and other household items.

PREVENTION

To help prevent the spread of bed bugs from already infested areas into uninfested areas, you want to use an appropriate mattress and box spring encasement.

(Note to Reviewer: The following text is optional language educating the consumer on the steps necessary to approach a bed bug problem. When included in the label, the text in full will be on the product label which will be firmly affixed to the product container).

[Bed Bug Home Protection Plan] [Bed Bug Home Protection Cycle] [Bed Bug 3-Step Process]

Detection

While bites may be the first indicator you have a bed bug problem, bites alone are not proof you have a bed bug problem since bites from ticks, fleas and mosquitoes can resemble bed bug bites. The only way to know for sure is to find and identify the bugs.

Look for:

- Small reddish brown bugs the size of an apple seed
- Small blood stains or dark excreta spots
- Dead bed bugs, shed skins or small whitish eggs
- A sweet or musty odor in the room

A thorough inspection is mandatory. Bed bugs are very good hidiers, so be sure to look in such places as:

- mattresses & box springs – around seams, creases, tufts, buttons, folds, vent holes & indentations
- bed frames – take apart bed frame to inspect cracks and crevices
- bedding & linens
- headboards & footboards
- nightstand & dresser drawers
- storage boxes, including those under beds
- furniture & upholstered furniture cushions
- pull out couches & sofa beds
- curtains & curtain rods
- rugs & tapestries
- cribs & changing tables
- chairs
- luggage & folding luggage racks
- wooden hangers
- clothing
- shoes & shoe boxes
- picture frames & wall hangings
- loose wallpaper or paneling
- wall voids & outlets – behind switchplates
- electrical boxes
- baseboards & floorboards
- carpeting & carpet tack strip
- crown molding
- door & window casings
- files, papers, books & magazines
- smoke detectors, thermostats, alarm clocks, telephones, radios and other electronics
- stuffed animals and plush toys
- pet carriers

Be thorough! Any little crack or crevice can be a bed bug hiding place.

Bed bugs prefer to stay close to their food source (you!) and are typically found within 1-5 feet of sleeping areas and furniture that is frequently occupied.

Detection devices [such as interceptors] [coasters] that are placed anywhere in the room, including under the legs of beds, couches or other furniture, or sticky glue traps can be used to monitor for bed bug activity. You may not notice any bed bug activity for 7-14 days and, even then, monitors will not detect 100% of the time. However, they can provide a barrier between the floor and bed and can be a very useful as part of an integrated pest management program.

Treatment

Bed bugs are challenging to eliminate because they can hide in many different places. Once detected, several steps must be taken to treat properly. Inspections must be thorough and elimination, especially of eggs, is not always a certainty. Treating for bed bugs is not the same as treating for other insects such as roaches and ants. Baits typically used to treat for roaches or ants are ineffective because bed bugs must bite and feed on blood. As a result, multiple treatments and treatment steps over several weeks as part of an integrated pest management program are necessary. Non-chemical and chemical options include:

- **Declutter:** Eliminate all clutter where bed bugs can hide. It is clutter, not uncleanliness, that puts you at risk for a bed bug infestation.
- **Vacuum:** Vacuum the entire area thoroughly, including the underside of the mattress, box spring and furniture, as well as the carpets and floor. Disassemble the bed and vacuum all bed components. Bed bugs and especially their eggs can be difficult to dislodge so use the vacuum's suction wand or crevice tool to scrape the infested area. Immediately discard the vacuum contents into a tightly sealed trash bag. Vacuuming every 2-3 days for 14 days is recommended.
- **Heat Treat:** Dry-wash-dry. First place clothing, bedding, etc. in the dryer for at least 45 minutes at a high temperature (120-140⁰ F). Then, wash and dry all clothing, bedding, etc. at high temperatures (120-140⁰ F). Be careful while stripping the bed so as to not dislodge bed bugs or eggs. Seal in a plastic bag before laundering to avoid spreading bed bugs and again after laundering in a new, clean plastic bag while you finish the treatment process so as to prevent reinfestation. Place toys, shoes, backpacks, etc. in a clothes dryer set at medium to high heat for 10-20 minutes. Wrap items that cannot be put in a washer or dryer in a large plastic bag and place them outdoors in a hot, sunny location or closed vehicle for at least a day. The fewer items packed in each bag, the better. Monitor with a thermometer for a target temperature of at least 120°F. Dry cleaning will have the same effect.
- **Apply Insecticides:** One step in eliminating bed bugs is to carefully apply insecticides registered to treat bed bugs [and bed bug eggs] to all areas where bed bugs are detected. Controlling bed bugs using non-chemical means alone is often very difficult, potentially less effective and usually more time consuming.
 - Carefully read and follow label directions.
 - Allow product to dry completely.
 - Do not sleep directly on treated mattress.

- We recommend carefully inspecting the area and reapplying insecticides after 2 weeks to kill bed bugs that later hatch from eggs, along with those that were missed during earlier treatment.
- Cracks & Crevices: Use an aerosol to treat the cracks and crevices of the bed frame, mattress & box springs, luggage and other hard to reach places, contacting as many of the insects as possible. A dust is best in electrical outlets, wall voids, carpet tack strips and bed frames.
- Spot Treatment: Use a liquid insecticide for spot treatment of the mattress, box spring & bed frame, baseboards, carpet & tack strips and luggage, contacting as many insects as possible.
- Area Treatment: Use a fogger for larger areas or heavy infestations.
- Barrier Treatment: Use a dust to create a barrier around your baseboards, wall voids, electrical outlets and other entrance points.
- Mattress & Household Items: To treat the mattress, box spring, furniture and other large household items that cannot be washed, a [household item] [mattress and luggage treatment kit] containing a large sealable plastic bag and bed bug pest strip can be used.
- **Dispose Infested Items**: For items that cannot be treated by vacuuming, heat, laundering or insecticides, tightly wrap and seal in a large plastic bag prior to disposing. Destroy or mark "Infested with Bed Bugs" to prevent someone else from picking them up.

If after one month you are still experiencing a severe bed bug infestation, please contact your local professional pest management company.

Prevention

Proper steps must be taken to prevent an initial or reinfestation. These include:

- **Isolating & Encasing the Bed**: Move your bed and other furniture away from the wall slightly. Remember, bed bugs do not fly or jump! Making sure the bed skirt and blanket do not touch the floor will make it harder for bed bugs to crawl onto the bed. Place detection devices such as interceptors [coasters] or glue traps under or around the bed. Enclose mattress and box spring in encasements to prevent bed bug entry and exit. Do not remove encasements. Use light-colored bedding to help aid in spotting bed bugs.
- **Sealing Cracks & Crevices**: Seal openings in window sills, baseboards, floorboards, furniture, bed frames and where pipes or wires or other utilities enter the home. Fix or take down any peeling wall paper. Tighten loose switch covers. Installing door sweeps will help discourage movement into hallways. For extra protection, dust can be puffed into all cracks and crevices that are difficult to reach or can't be sealed such as electrical outlets, wall voids, carpet tack strips and bed frames. As long as the dust is present, it will remain effective and keep killing bed bugs. Be sure to carefully read and follow label directions .
- **Manage the Environment**: Eliminate clutter. Launder bedding and clean furniture routinely. Vacuum often and thoroughly. Thoroughly inspect purchased furniture before bringing it home, especially if it was purchased used. Avoid purchasing used furniture. Monitor previously infested or likely to be infested sites daily. Remove evidence of previous infestations. Restart treatment process if necessary.

Bed bugs are typically transported from place to place as people travel, so it is important to take proper precautionary steps when traveling. Also make sure any visiting guests are not transporting bed bugs in their luggage.

- **Prior to Travel:**
 - DO Spray luggage and allow to dry completely with a product registered to treat bed bugs [and bed bug eggs] and for use on luggage.
 - DO Pack clothing and other items in sealable plastic bags. Bring extra resealable plastic bags for soiled clothing.
- **At Hotel/Destination:**
 - DO check for signs of bed bugs by examining the cracks and crevices of the mattress, box spring, sheets, bedding, headboard, nightstand & dresser drawers, desks, chairs, and other furniture; behind wallpaper and pictures; in clocks and other electronics; in cracks in wood floors; and under the edge of the carpet. Carrying a small flashlight such as the [insert product name here] will help you quickly and thoroughly inspect for signs.
 - DO change rooms immediately, or change hotels entirely, if you identify bed bugs in your hotel room.
 - DO NOT put your suitcase on the bed. Elevate all luggage off the floor using a luggage rack (inspect first), tabletop or other hard surface. The best place is in the bathroom, especially the tub.
 - DO NOT unpack your suitcase contents into dressers.
 - DO check clothes hangers thoroughly before unpacking. Bed bugs hide in the cracks and crevices of hangers so a thorough inspection is necessary before hanging up clothes, especially if the hangers are wooden.
 - DO re-pack luggage contents into sealable plastic bags so you can throw them directly in the dryer when you return home to kill any bed bugs or eggs that may be nestled in the clothing.
- **Returning Home:**
 - DO NOT unpack luggage inside. Unpack luggage outside, or in a garage, laundry room or utility room.
 - DO remove the items you placed in plastic bags at the hotel, and throw them immediately into the dryer, set on the highest heat setting the fabric can withstand to kill any bed bugs or their offspring that may be nestled in the items.
 - DO inspect luggage and clothing for signs of bed bug activity. If signs are found, treat luggage by vacuuming, laundering (scrubbing with hot, soapy water) and/or insecticides.
 - DO store luggage in sealed bags and keep them in a closet or garage. If you are exposed to a bed bug infestation, there is no reason to throw out your luggage and clothing unless your infestation is severe. The key is to contain all items suspected of carrying bed bugs in plastic bags until you can treat them.

These steps are very important, and must be done carefully, consistently and cyclically. Bed bugs are resilient creatures that will not go away without intervention.

A comprehensive, continuous cycle of Detection → Treatment → Prevention is the key to gaining control.