



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

11556-146

Date of Issuance:

JAN 8 2008

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BAH 4 CST Insecticide

Name and Address of Registrant (include ZIP Code):

Bayer HealthCare LLC, Animal Health Division
P.O. Box 390
Shawnee Mission, KS 66201-0390

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/reregistered 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) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 11556-146".
 - b. In both the **Band Application** and **Whole House Application** sections for darkling beetles, provide examples of "In some situations." The label must be clear as to when it is appropriate to apply product via band or whole house application.
 - c. Delete the following label claims:
 - "Low odor"
 - "No (offensive) odor"
 - "No (offensive) odor formula"

Signature of Approving Official:

Kable Bo Davis, Entomologist

Insecticide-Rodenticide Branch, Registration Division (7505P)

Date:

JAN 8 2008

- *"Protects your investment (buildings and poultry)"*
 - *"Protects poultry operations from damaging darkling beetles"*
 - *"Listed pests [(darkling beetles) (lesser mealworms)] [and hided beetles] cannot detect the presence of [(BAH 4 CST) (the active ingredient in BAH 4 CST) (imidacloprid)]"*
 - *"Target(ed) Approach – formulated (especially) (only) for darkling beetles (control)"*
 - *"Banded [(application) (treatment)] delivers [(targeted) (focused)] control"*
 - *"Banded application for targeted control"*
 - *"Targeted band application technology"*
 - *"Advanced treatment technology"*
 - Delete all labels within the **New Chemistry** section on page 10 of the label.
3. The data requirements for storage stability (830-6317) and corrosion characteristics (830- 6320) have not been satisfied, and must be submitted within eighteen months of the date of this letter.
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with 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.

Kable Bo Davis
Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

Note to Reviewer: Brackets [] and parentheses () denote optional language

BAH 4 CST Insecticide

For (effective) control of [ants] [(darkling beetles) (lesser mealworms)] and [hide beetles] in and around poultry [(housing) (structures) (facilities) (buildings) (barns)].

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-

[Selected optional label claims bulleted here from pages 8 -10.]

ACTIVE INGREDIENT:

Imidacloprid [CAS 1328261-41-3] 42.8%

OTHER INGREDIENTS 57.2%

Total: 100.0%

Contains 4.38 pounds of imidacloprid per gallon, or 526 grams
AI/liter.

Shake well before using.

EPA Reg. No. 11556-xxx

EPA Est. No. TBD

STOP - Read the label before use.

Keep out of reach of children.

CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JAN 8 2008

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
11556-146

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FIRST AID	
If Swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If In Eyes:	Hold eyelids 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.
If On Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment call 1-800-422-9874. For customer service or to obtain product information, including the MSDS, call 1-800-633-3796.	
NOTE TO PHYSICIAN	
No specific antidote is available. Treat the patient symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

Personal Protective Equipment

All pesticide handlers (mixers and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical – resistant gloves made of waterproof material. After the product is diluted in accordance with label directions for use, shirt, pants, socks, shoes must be worn.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. 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 waters. Apply this product only as specified on this label.

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DIRECTIONS FOR USE

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

IMPORTANT: Read the entire Directions for Use, Conditions of Sale and Disclaimer of Warranties and Limitations of liability before using this product.

CONDITIONS OF SALE: The directions for use of this product were determined through research to be appropriate for the correct use of this product. This product has been tested under different environmental conditions similar to those that are ordinary and customary where the product is to be used. Insufficient control of pests or plant injury may result from the occurrence of extraordinary or unusual conditions, or from failure to follow label directions. In addition, failure to follow label directions may cause injury to animals, man and damage to the environment. Bayer offers, and the buyer accepts and uses, this product subject to the conditions that extraordinary or unusual environmental conditions, or failure to follow label directions are beyond the control of Bayer and are, therefore, the responsibility of the buyer.

Do not formulate this product into other end-use products.

[(DARKLING BEETLE) (LESSER MEALWORM)] [AND HIDE BEETLE] CONTROL IN AND AROUND POULTRY [(HOUSING) (STRUCTURES) (FACILITIES) (BUILDINGS) (BARN)]

Use [(BAH 4 CST) (this product)] as a general surface, spot, or crack and crevice treatment to floors, walls and support beams of [(poultry) (broiler) (turkey) (caged egg layer) (breeder)] [(housing) (structures) (facilities) (buildings) (barns)]. **Do not apply when birds are present.** Cover or remove exposed feed and water from the area to be treated. Allow treated surfaces to dry before restocking/reintroducing [(birds) (animals)] into the [(house) (structure) (facility) (building) (barn)].

MIXING AND APPLICATION RATES: Determine the [(area) (number of square feet (ft²))] to be treated. Refer to Mixing Table below for amount of [(BAH 4 CST) (this product)] to be used. Mix the required amount of [(BAH 4 CST) (this product)] with the [(appropriate) (desired)] amount of water and apply as a spray. Fill the sprayer tank with ½ of the water [(required) (needed) (necessary) (desired)] for the treatment. Begin agitating the water and add the required amount of product to the tank. Continue mixing and add the remaining water. Maintain sufficient agitation during product application to ensure a uniform spray. Prepare a fresh spray mixture before each treatment.

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MIXING TABLE FOR BAH 4 CST

<i>Pests to Control</i>	<i>BAH 4 CST Per 1,000 ft²</i>	<i>Gallons of Water Per 1,000 ft²</i>
Darkling Beetles [Hide Beetles]	3 fl. oz.* (90 mL*)	½ -2 gallons

* Equivalent to 45 grams of imidacloprid a.i./1,000 ft²

CONVERSION KEY: 128 fl oz = 1 gal, 16 fl oz = 1 pint, 8 pints = 1 gal, 1 fl oz = 29.5 mL

WHEN TO APPLY: Apply [(between flocks) (after each grow-out) (following de-caking) (to new litter following clean-out) (following sanitation procedures) (prior to placement of a new flock)].

HOW TO APPLY

Band Application: In some situations it may not be [(necessary) or (desirable)] to treat the entire [(floor area) (litter surface)] of a [(poultry) (broiler) (turkey) (caged egg layer) (breeder)] house. In these situations, certain portions [of the house] [or "bands"] may be treated. For example, [(apply) (spray)] diluted BAH 4 CST [(on) (to)]: a 3-foot wide band of litter [surface] under all of the [(feed) (water)] lines in the house; a 3-foot wide band of litter [surface] adjacent to the side and end walls; and the lower [(section) (portion)] of the walls, including 1 foot up onto wood surfaces above the [concrete] foundation. Be sure to measure the [(actual) (surface) (area) (square feet)] to be treated in order to determine the [amount] [quantity] of [(BAH 4 CST) (this product)] [(needed) (required) (necessary)] for the [(application) (treatment)].

Whole House Application: [(In some situations) (When darkling beetle infestation is severe) the entire (house) (floor area) (litter surface) may (need to) be treated.] Apply diluted [(BAH 4 CST) (this product)] as a broadcast spray to the litter covering the entire floor area, especially to litter under feed and water lines, as well as to the lower sections of walls, including 1 foot up onto wood surfaces above the concrete foundation.

FOR BEST RESULTS: In houses with support beams, treat the litter surface around each support post, and 1 foot up each post. Also apply diluted spray to cracks and crevices around wall insulation, where beetles have been seen or can find harborage.

[INSECTICIDE ROTATION] [INTEGRATED PEST MANAGEMENT (IPM)] [RESISTANCE MANAGEMENT]

Darkling beetles, like all insects, have the ability to develop resistance to insecticides. When a single chemical class is used [(continuously) (flock after flock) (year after year) (time after time)], this [(enhances) (increases) (maximizes)] the [(likelihood) (probability) (certainty) (chance)] that resistance to that chemical class will develop. [(BAH 4 CST) (this product)] contains imidacloprid, which belongs to the class of chloronicotinyl insecticides. [(BAH 4 CST) (this

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product)) should be used in a ((rotational) (insecticide rotation)) program with other [classes of] insecticides ((such as) (including, but not limited to)) [pyrethroids] ((such as) (Tempo[®] products) (Tempo[®] SC Ultra)) [organophosphates] [spinosyns], to prevent [the development of] resistance and ((preserve) (prolong) (protect) (maintain) (increase)) the product's ((useful life) (usefulness) (effectiveness) (efficacy) (longevity) (value)) for darkling beetle control.

- Read and follow ALL label directions when ((using) (applying) (treating with)) ((BAH 4 CST) (this product)) or any other insecticide [product].
- Do not use ((BAH 4 CST) (this product)) or any other insecticide [product] at ((less) (lower)) than the recommended label rate. This exposes the insects to a ((sub-lethal) (non-killing)) dose and ((hastens) (speeds up) (accelerates) (favors) (increases)) the development of resistance.
- Use ((other) (Integrated Pest Management) (IPM)) ((strategies) (tactics) (practices) (measures)) in addition to ((insecticide) (chemical)) ((applications) (treatments)) to ((manage) (control)) darkling beetle populations.

[Contact] [Talk to] your [local] Bayer [Animal Health] representative or your [local] Cooperative Extension Service for advice concerning the use of ((BAH 4 CST) (this product)) and ((appropriate) (helpful) (suitable)) ((resistance management) (insecticide rotation)) ((strategies) (tactics) (practices) (measures)).

[NOTE: When pest exclusion at possible entry points is desired, supplement BAH 4 CST [litter] treatments with [targeted] ((applications) (treatments)) of a ((pyrethroid) (insecticide)) [such as] (Tempo[®] SC Ultra) or (Tempo[®] 20 WP)] to the building perimeter, foundation, doors and windows, utility entry points, and other places where pests may enter the structure. Read and follow all label directions for use of ((these other) (companion)) products.]

**FOR CONTROL OF ANTS IN AND AROUND ANIMAL ((HOUSES) (FACILITIES)
(BUILDINGS) (BARN)) AND OTHER STRUCTURES**

Prepare a sufficient quantity of a 0.05 to 0.1% solution of ((BAH 4 CST) (this product)) by referring to the following table.

GALLONS WATER	PLUS	0.05%	0.10%
1		3.8ml (0.75 tsp)	7.5 ml (1.5 tsp)
2		7.5ml (1.5 tsp)	15.0 ml (1 tbs)
5		18.2 ml (3.7 tsp)	36.5ml (2.5 tbs)
10		36.5 ml (2.5 tbs)	73.0ml (2.5 fl. oz.)

Apply a 0.05 to 0.1% solution as a general surface, spot, crack and crevice or wall void application. Apply to surfaces on buildings, around doors and windows, eaves and attic vents, utility entry points, soffit areas and other exterior openings (including foundation cracks or drilled holes) where these pests enter the structure or where they crawl or hide. Spray into cracks and crevices. Spray into voids where these ants or their nests are present. Apply the volume of

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spray, mist or foam sufficient to cover the area, but do not allow excessive dripping or run-off to occur from vertical or overhead surfaces.

Treat soil, turf or ground cover adjacent to the structure where ants are trailing or may find food or harborage. Apply to flower, shrub or ornamental plant beds adjacent to the structure where ants may find food or forage. To control ants tunneling in soil apply a 0.05% to 0.1% solution as a drench at intervals to establish a continuous treated zone. Treat along the edge of walls, driveways or other hard surfaces where ants are tunneling beneath the surface.

Aerial Nests: If ant nests are located in tree hollows or non-structural wooden construction (e.g.; posts, fences, decks) treat the interior cavity and/or the nest site by injecting a 0.05%-0.1% solution as a spray mist.

Apply in sufficient water to cover the foliage and soil area being treated. Maximum application is once per month to maintain control.

Do not allow residents or pets into the immediate area during the application or contact with treated areas until spray has dried. Interior applications for ant control are limited to spot, crack and crevice, or wall void applications only.

Do not use this product against native or imported fire ants, harvester ants or pharaoh ants.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticide below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 1-800-414-0244, or contact Chemtrec at 800-424-9300.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site (in the treatment area) or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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LIMITED WARRANTY AND LIMITATION OF DAMAGES

Bayer HealthCare LLC, Animal Health Division warrants that this material conforms to the chemical description on the label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY, and no agent of Bayer is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values, etc.

NET CONTENTS:

TEMPO is a registered trademark of Bayer.

Produced for



Bayer HealthCare

Bayer HealthCare, LLC
Animal Health Division
P.O. Box 390
Shawnee Mission, KS 66201
<http://www.bayer-ah.com/livestock.cfm>

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Additional/Alternative Marketing Claims

Formula:

- Low odor
- No (offensive) odor
- No (offensive) odor formula
- One dose formula
- No dust
- Quick mix (liquid) formula
- Specifically formulated for control of darkling beetles
- Specifically formulated for the poultry industry
- Quick mix and spray formula
- Mix & Go (liquid) formula
- One dose mix-and-go (liquid) formula
- Formulated to meet the needs of poultry operations
- Darkling beetle control (product) designed (formulated) specifically for poultry producers
- Darkling beetle control (liquid) formula
- Easy to apply, hard on darkling beetle (formula)
- Quick Mix and Apply (Product)
- Contains [(imidacloprid) (a chloronicotinyl insecticide)]

Benefits:

- Controls darkling beetles that may [(carry) (spread) (transmit)] poultry disease-causing organisms
- Controls darkling beetles that may damage [(buildings) (ceilings) (insulation) (walls)]
- Controls darkling beetles that can feed on grain
- Controls both [(darkling beetle) (lesser mealworm)] [and hide beetle] larvae and adults
- Effective against both [(darkling beetle) (lesser mealworm)] [and hide beetle] larvae and adults
- Protects your investment (buildings and poultry)
- Protects poultry operations from damaging darkling beetles
- Stop (reduce) (alleviate) (take out) the risks darkling beetles [(pose) (bring)]
- Stop the damage and risks that darkling beetles cause
- Stop darkling beetles from [(taking)(eating)] your profitability
- Reduce darkling beetle risk(s)
- Reduce risks that darkling beetles [(pose) (bring)]
- Reduce impact on neighboring communities
- Reduce darkling beetles' negative impact on [poultry] [(production) (performance)]
- Listed pests [(darkling beetles) (lesser mealworms)] [and hide beetles] cannot detect the presence of [(BAH 4 CST) (the active ingredient in BAH 4 CST) (imidacloprid)]

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Application:

- Effective control of [ants] [(darkling beetles) (lesser mealworms)] [and hide beetles]
- [(Targeted) (Banded)] [(application) (treatment)] delivers effective [(darkling beetle) (lesser mealworm)] [and hide beetle] control
- Target(ed) Approach – formulated (especially) (only) for darkling beetles (control)
- One dose – effective, (easy) (simple) to use
- [(Focused) (Targeted) (Strategic)] band [(treatment) (application)]
- Allows labor saving band [(treatment) (application)]
- Broadcast or banded treatment (application)
- Less time consuming (band) [(application) (treatment)]
- Easy and flexible treatment (options)
- Time Saving Band Application
- Mix and spray – fast and flexible treatment technology
- Banded [(application) (treatment)] delivers [(targeted) (focused)] control
- BAH 4 CST can be applied as either a band or broadcast (spray) treatment
- Controls even pyrethroid [(spinosad) (organophosphate)] resistant [(darkling beetle) (lesser mealworm)] [and hide beetle]
- Use less insecticide (per house/building/barn) with a banded application
- Less insecticide – [(targeted) (banded)] [(application) (treatment)]
- Easy and targeted control of [(darkling beetle) (hide beetle) (lesser mealworm)]
- [(Protection) (Control)] exactly where you need it
- Flexible application for any poultry operation
- Save time, labor and money with [(targeted) (focused)] band application
- Banded application saves time, labor and money; Provides effective control
- Apply [(treatment) (control)] right where you need it
- Easy (One) Dose Technology
- One dose, mix, and spray – Quick and Easy
- Banded application for targeted control
- Target [(darkling beetles) (lesser mealworms)] [and hide beetles]

General:

- The active ingredient in BAH 4 CST (imidacloprid) has been proven to provide effective control of [ants] [(darkling beetles) (lesser mealworms)] [and hide beetles]
- Controls darkling beetle adults and larvae
- Targeted band application technology
- The solution to [(darkling beetle) (lesser mealworm)] [and hide beetle] control
- Advanced treatment technology
- [(Control) (Reduce)] darkling beetles that can [(spread) (carry)] disease causing organisms

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Rotation Benefits:

- Rotate with [(Tempo) (Tempo Ultra)] to manage (darkling beetle) resistance
- Team up with BAH 4 CST and [(Tempo) (Tempo Ultra)]
- [(Manage) (Prevent)] resistance - rotate (with) (between) BAH 4 CST & [(Tempo) (Tempo Ultra)]
- Team up with the Rotation (Combination): BAH 4 CST & [(Tempo) (Tempo Ultra)]
- [(Prevent) (Manage)] resistance with the rotation (combination) (products) (team): BAH 4 CST & [(Tempo) (Tempo Ultra)]
- Rotation (Team) Technology
- The BAH 4 CST & [(Tempo) (Tempo Ultra)] Team [(prevents) (manages)] resistance
- For maximum results, Team up with the Rotation Combination

New Chemistry:

- [(Next generation) (Advanced)] technology exclusively for the poultry industry
- Exclusive [(next generation) (advanced)] technology for the poultry industry [for the control of darkling beetles]
- Engineered exclusively (specifically) for the poultry industry (for the control of darkling beetles)
- Next generation of darkling beetle control
- Advanced next generation [(technology) (formula)] for darkling beetle control
- Next Generation Technology. Advanced Control
- The Next generation darkling beetle control
- Next generation treatment [technology]
- Unique mode of action for darkling beetles
- Unique class of chemistry for darkling beetles