

70127-10

6/23/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Carrie Daniels
Authorized Representative of
Novozymes Biologicals, Inc.
Exponent
1150 Connecticut Avenue, NW, Suite 1100
Washington, DC 20036

RE: Product Name: Tick-Ex™ EC - Bioinsecticide
EPA Reg. No: 70127-10
Notification Dated: May 6, 2011 to add an Alternate Brand Name: Met52 EC
as per PRN 98-10.

Dear Ms Daniels:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticides Registration Notice (PRN) 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped as "Notification Accepted" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mary Paden (703) 308-0411 or email at paden.mary@epa.gov.

Sincerely,

Sheryl K. Reilly

Sheryl K. Reilly, Ph.D., Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention
Division (7511P)

JUN 23 2011

CONCURRENCES

SYMBOL	7511(P)						
SURNAME	Paden						
DATE	23 JUN 11						

(Reviewer Notes: This states the label that will be placed on the back of the container.)

MODE OF ACTION AND APPLICATION TIMING: Application frequency will depend on the environment to which Tick-EX EC is applied and the target insects' life cycle. Persistence of Tick-EX EC will generally be higher when incorporated into soil and higher in foliar applications in greenhouses than outdoor foliar.

Tick-EX EC may be used for foliar applications to control insects with a high reproductive potential. It is best to begin applying Tick-EX EC at early stages of population development. Repeat applications at 5-10 day intervals, matching application interval to insect and population. High insect populations of whiteflies may require 2-5 day intervals. Applications to leaf litter and turf may be done on a four to six week interval with an expected residual efficacy of a few months.

Applications of drenches to potting media may be done as appropriate to standard pest management practices and the product may remain efficacious for up to one year. When possible, application to soil should be done in advance of a target insect's life stage that will be passing through the first six inches of soil, with an expected residual efficacy of a few months. Although the penetration of Tick-EX EC into soil will vary greatly with soil type and level of irrigation it is best to target populations as close to the surface as possible or time application of Tick-EX EC with a soil incorporation event

Once the product is incorporated into the growing medium, insects that come into contact with the fungus become infected. The spores attach to the surface of the insect, germinate and grow. Under moderate temperatures it usually takes 3 to 7 days, once the insect is exposed for death to occur. At very cold or hot temperatures death may occur more slowly.

PRE-HARVEST INTERVAL: Pre-harvest interval for Tick-EX EC is zero (0) days. Tick-EX EC may be applied up to the day of harvest.

SITES FOR USE

TERRESTRIAL NON-FOOD: Tick-EX EC can be used on the crops listed in Table 1 (greenhouse, nursery and outdoor sites including urban and suburban turf). Do not apply on poinsettias after bract formation. Tick-EX EC has shown plant safety but has not been tested on all varieties. Test Tick-EX EC on a small number of plants to check for potential damage before applying to a large number of plants.

FOOD CROPS: Tick-EX EC can be used on the crops listed in Table 1 (including greenhouse, nursery and outdoor agricultural sites). Tick-EX EC has shown plant safety but has not been tested on all varieties. Test Tick-EX EC on a small number of plants to check for potential damage before applying to a large number of plants.

APPLICATION INSTRUCTIONS

MIXING INSTRUCTIONS: Shake well before using. Tick-EX EC may be applied using hand-held, ground and/or aerial spray equipment. Tick-EX EC contains emulsifiers and mixes readily in water. Fill spray tank with half of the desired amount of water and start agitation. Slowly add desired amount of Tick-EX EC to spray tank. Add remaining desired amount of water. Triple rinse empty Tick-EX EC container with water and add rinse water to spray tank. Continue agitation throughout spraying. Do not mix more Tick-EX EC than can be applied within six hours of mixing.

PLANT SAFETY: Tick-EX EC has been determined to be safe and efficacious for the uses described on this label but not been tested on all varieties of listed plant species. Test Tick-EX EC on a small number of plants to check for potential damage before applying to a large number of plants.

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FOLIAR APPLICATION, HIGH VOLUME: Apply at a rate of ½ pint to 1 quart per 100 gallons in high volume sprays (0.5 to 2.5 teaspoons per gallon). Mix well by external mixing, in-tank mixing, or pump circulation to form emulsion. Do not apply at pressures above 200 PSI. **Spray to wet all foliage, but avoid runoff.**

FOLIAR APPLICATION, LOW VOLUME: Apply ½ pt. to 2 quarts of Tick-EX EC to one (1) acre. Follow spray equipment manufacturer's instructions for final spray volume to obtain adequate coverage. Do not apply at pressures above 200 PSI. **Do not apply through a thermal pulse fogger.**

DRENCH: Add from 40 to 80 fluid ounces of Tick-EX EC to 100 gallons of drench solution. **For pots:** drench application should be thoroughly watered-in without causing water to come out of the bottom of the pots – depending on the soil type and moisture this will be around 8 ounces per gallon pot. **For soil applications:** drench application should be thoroughly watered-in without causing water to move laterally – this will vary by soil type and moisture holding capacity at time of application. Applications should be targeted to move Tick-EX EC into the top 2 inches of soil.

FOLIAGE AND ROOT PLANT DIP: To prepare dip solution, thoroughly mix ½ to 1 fluid ounce of Tick-EX EC per gallon of water. Prepare only as much dip solution as can be used in 6 hours. When treating plants by the dip method, thoroughly wet all plant surfaces to be treated. Allow treated plant foliage to dry prior to potting and watering. Tick-EX EC has been determined to be safe and efficacious for the uses described on this label but not been tested on all varieties of listed plant species. Test Tick-EX EC on a small number of plants to check for potential damage before applying to a large number of plants.

APPLICATION TO TURF: Apply 2 to 3 fluid ounces of Tick EX EC to 1000 square feet in residential and institutional lawns and landscape perimeters. Applications for blacklegged ticks should focus on the border of manicured lawns and paths creating a minimum of a 9 foot border. Applications for more mobile ticks such as lonestar tick should cover a wider area and include the entire lawn. Apply using a minimum of 4 gallons of water per 1000 square feet. Initial applications should begin in the spring before ticks become active and continue at 4 to 8 week intervals throughout their active season.

TANK MIX COMPATIBILITY: Tick-EX EC is physically and biologically compatible with a wide range of pesticides and spray adjuvants. Do not mix Tick-EX EC with fungicides. If adjuvants are required when applying Tick-EX EC in combination with other pesticides, contact your dealer or Novozymes Biologicals for specific recommendations.

Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

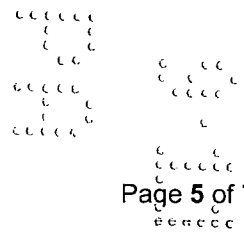
CONTROLLING PESTICIDE DRIFT: Do not allow spray to drift from the application site and contact people, nontarget crops, aquatic and wetland areas, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use a fine or medium spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For orchard/vineyard airblast applications, do not direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 -10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.

For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 -- 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

The applicator also must use all other measures necessary to control drift.



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Homeowners

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store TICK-EX EC in its original container below 73°F (23°C) in a dry, locked place, out of the reach of children and out of direct sunlight. Do not use or store near heat or open flame. Use product within one year and by the expiry date noted on the label.

PESTICIDE DISPOSAL AND CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill container.

If empty:

Place container 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.

WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully.

Novozymes Biologicals warrants that at the time of the first sale of this product it conforms to the chemical description on the label and when used according to the label directions under normal growing conditions is reasonably fit for the purposes referred to above. To the extent consistent with applicable law, buyers/users of this product assume full risk for any use contrary to the specified directions. If this product does not perform as warranted above, customer's sole remedy for breach of warranty, to the extent consistent with applicable law, shall be replacement of the product or refund of the purchase price paid, at the option of Novozymes Biologicals.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTEE, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.