

70051-6

1/5/2010

10/15



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

January 5, 2010

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Christine A. Dively  
Director of Regulatory Affairs  
Certis USA, LLC  
9145 Guilford Road, Suite 175  
Columbia, MD 21046

RE: Product Name: Meen  
EPA Reg. No: 70051-6  
Application for Label Notification Dated September 30, 2009 to update storage and disposal statement; add Lot Number to front page of label and to update the Environmental Hazards Statement.

Dear Ms.Dively:

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

If you have any questions concerning this action, please feel free to contact Ms. Menyon Adams at (703) 347-8496 or email at [adams.menyon@epa.gov](mailto:adams.menyon@epa.gov).

Sincerely,

*Linda Hollis*

Linda Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention  
Division (7511P)





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December 15, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
1200 Pennsylvania Ave., NW  
Washington DC 20460-0001

**Re: Certis U.S.A., L.L.C.**

**Notification of label changes per PR Notices 2007-4 and 2008-1: Meen  
EPA REG. No. 70051-6**

Certis USA, L.L.C. respectfully submits the following changes to the label for Meen (EPA Registration Number 70051-6) to comply with the requirements of PR Notices 2007-4 and 2008-1.

Container reuse statements consistent with PR Notice 2007-4 were added to the Storage and Disposal sections, a place to put the lot number was added to the front panel of the label, and the Environmental Hazards statements were replaced with statements recommended by PR Notice 2008-1. No other changes were made to the label.

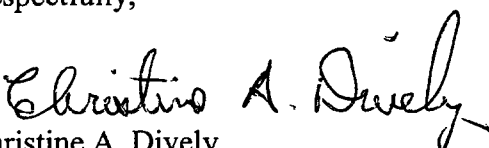
These materials were originally delivered to the document processing desk on 10/7/09, but did not reach the intended recipient. (Please see the receipt which accompanies this letter). We therefore request that the Agency expedite the review of this submission.

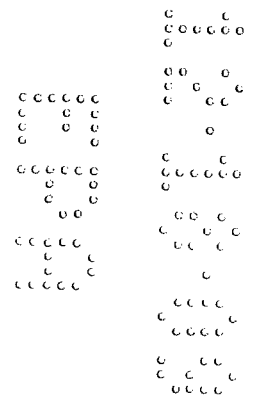
Enclosed in this submission are the following:

- Applications for Registration – EPA Forms 8570-1
- A copy of the final label

Please do not hesitate to contact me if you have any questions about this submission. I can be contacted by telephone at 301-483-3806 or by email at [cdively@certisusa.com](mailto:cdively@certisusa.com).

Respectfully,

  
Christine A. Dively  
Director of Regulatory Affairs



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# Meen

## INSECT GROWTH REGULATOR



### FOR ORGANIC GARDENING

Kills or repels various insect pests on ornamentals, trees, lawns, shrubs, flowers, and vegetables in the yard and garden, and in and around interiorscapes and homes.

Kills Sod Webworms, Chinch Bugs, and Other Listed Insects.. Kills larval stages of insects.

MEEN disrupts the molting ability of immature insects of many types, inhibits feeding, and acts to disrupt the reproductive capacity of many insect adults.

Active Ingredient:

Azadirachtin.....	0.09%
Other Ingredients.....	99.91%
Total.....	100.0%

EPA Registration No: 70051-6

EPA Establishment No: 44616-MO-01

**Keep Out of Reach of Children**  
**CAUTION**

See Side/Back Panel for Additional Precautionary Statements and First Aid

Net Contents:

Lot Number:

MANUFACTURED BY:  
CERTIS USA, L.L.C.  
9145 GUILFORD ROAD  
SUITE 175  
COLUMBIA, MD 21046

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**Caution:** Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. 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. Hot Line Number: 1-800-255-3924.

**Environmental Hazards:**

This product is hazardous to fish and aquatic invertebrates.

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. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

**Physical or Chemical Hazards:**

Flammable. Keep away from heat and open flame.

## Directions for Use

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

### General

- Botanical Insecticide Concentrate
- Insecticide, Repellent, Insect Growth Regulator
- All-Purpose Insect Control
- All-Purpose Insecticide
- Broad Spectrum Insecticide
- Broad Spectrum Insect Control
- Insect Anti-Feedant
- Multi-Purpose Insecticide
- Kills and/or repels insects/Japanese beetles.
- Kills larval stages of insects.
- For Indoor and Outdoor Use
- Formulated for Interiorscape use.

### General Information

MEEN's effectiveness is based on several modes of action. It disrupts insects' delicate hormonal balance so they die before they molt to the next life stage. MEEN suppresses some insects' desire to feed and also repels many insects in areas that have been sprayed. These different modes of action result in broad spectrum control of the majority of insects that harm your yard and garden.

*[MEEN's effectiveness is based on three modes of action:*

- 1. Anti-feedant: MEEN suppresses the insect's desire to feed and, therefore, no damage is caused.*
- 2. Repellent: Insects simply stay away from areas sprayed with MEEN and, therefore, no damage is caused.*
- 3. Insect Growth Regulator: MEEN disrupts the insect's delicate hormonal balance so it dies before it molts to the next life stage.]*

MEEN kills or repels a broad assortment of insect pests. MEEN spares many beneficial insects such as honey bees and lady bugs that prey on undesirable insects. Without beneficial insects to control pest populations, plants are even more vulnerable to new infestations.

Neem-based products have been tested and used as effective insecticides in commercial greenhouses. The Neem seed has been the subject of extensive testing throughout the world *[since after WWII]*. Neem has been tested at major universities throughout the U.S. since 1982.

The active ingredient in MEEN is an extract from the seeds of the neem tree, a renewable resource. Parts of the neem tree have been used over the centuries for highly effective insecticidal and medicinal purposes. The neem tree is native to India, Africa, and several other tropical countries. Over the years, people have stored their food grains, in the home, free from pest infestation by adding whole or chopped neem seeds. The trees are also planted in backyards and common areas in order to repel insects.

Shake well before using.

Use spray solutions within 8 hours of mixing for maximum effectiveness. Do not store diluted spray solution for later use.

Not for use in food handling areas.

Since MEEN interferes with insect growth function, it is most effective when applied 2-3 times at 7-10 day intervals.

Application directly onto the target pest will increase efficacy. Time applications for early to mid-morning or in the late afternoon.

Do not add other chemicals to MEEN solutions.

Do not apply to wilted, stressed, or newly transplanted materials prior to root development. Do not apply to known sensitive plant species without prior testing.

**Known Sensitive Plants**

Do not apply MEEN to the following plant species due to potential plant damage:

Hibiscus flowers

**The Following Section Contains Directions For Concentrate Products Use**

**(1) Foliar Application (Bedding & Potted Plants)**

For use on bedding plants, potted and foliage plants, ornamentals, trees and shrubs, in and around homes to control the immature or larval forms of the following insect pests:

PESTS

Leafhoppers  
Leafminers  
Whiteflies  
Thrips  
Mealybugs  
Loopers  
Caterpillars  
Aphids  
Fruitflies  
Beet armyworms  
Mexican Bean Beetles

USE DIRECTIONS

Dilute MEEN to a concentration of 3 fl. Oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Mix thoroughly. Apply with a hand sprayer as a fine spray to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application

**(2) Foliar Application (Trees & Shrubs)**

For use on trees and shrubs on residential landscapes to control the immature larval stages of the following insect pests:

PESTS

Leafhoppers  
Leafminers  
Gypsy moths  
Weevils  
Psyllids  
Webworms  
Hornworms  
Spruce budworms  
Pine sawflies  
Elm leaf beetle  
Bagworms  
Tent Caterpillars  
Grasshoppers

USE DIRECTIONS

Dilute MEEN to a concentration of 3 fl. Oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Mix thoroughly. Apply with a hand sprayer as a fine spray to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application.



**(3) Lawn Application**

For home lawns to control the following insect pests:

PESTS

- Mole crickets
- White grubs
- Sod webworms
- Fall armyworms
- Chinch bugs
- Hyperodes weevils
- Billbugs
- Crane flies

USE DIRECTIONS

Dilute 2 fl. Oz. (4 tablespoons) of MEEN in 1 gallon of water. Apply at the rate of 5 gallons spray solution per 2000 square feet. Apply MEEN 2-3 times on a 7-10 day interval to insure effective control of surface and sub-surface feeding pests. Do not apply MEEN to newly seeded lawns. Best timing for initial white grub application will vary by region but is generally early to mid summer and again in the fall. If in doubt, contact your local university research or extension specialist for the periods when white grubs are feeding in your area.

**(4) Yard and Landscape MEEN Concentrate**

For use around the home to control the following insects:

PESTS

- Aphids
- Caterpillars
- Gypsy moth larvae
- Immature tent beetles
- Webworms
- Bagworms
- Lace bugs
- Box elder bugs
- Leafhoppers
- Psyllids
- Sawfly larvae
- Woolly aphids

USE DIRECTIONS

Always use freshly mixed spray solution. Use soft water whenever possible. Use with caution on new tender foliage, and do not apply to plants in direct sunlight. When insects are first noticed, apply a mixture of 3 fl. Oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Repeat applications 2-3 times on a 7-day interval. When infestations are heavy, apply on a

3-4 day interval until populations are reduced.

**(5) House Plant Application**

For use on house plants to kill or repel the following insect pests:

PESTS

- Leafhoppers
- Leafminers
- Whiteflies
- Thrips
- Mealybugs
- Loopers
- Caterpillars
- Aphids
- Fruitflies
- Beet armyworms
- Mexican bean beetles
- Fungus gnats

USE DIRECTIONS

Dilute MEEN to a concentration of 0.42 fl. Oz. (2 1/2 teaspoons) of MEEN per pint of water. Mix thoroughly. Adjust spray bottle nozzle to spray setting and apply MEEN to leaf surfaces until completely wet. Be sure to coat undersides of leaves especially those at the soil surface as this is where many insects hide. Avoid excessive application.

**(6) Vegetable and Fruit Crop Application**

For use on vegetable and fruit crops to kill or repel the following insect pests:

PESTS

- Armyworms
- Diamondback moths
- Hornworms
- Imported cabbageworms
- Loopers
- Melonworms
- Pickleworms
- Tomato fruitworms
- Corn earworms
- Bollworms
- Budworms
- Whiteflies
- Thrips
- Borers
- Aphids
- Squash bugs
- Tent caterpillars

USE DIRECTIONS

Always use freshly mixed spray solution. Use soft water whenever possible. Use with caution on new tender foliage. When insects are first noticed, apply a mixture of 3 fl. Oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Repeat applications 2-3 times on a 7-day interval. When infestations are heavy, apply on a 3-4 day interval until populations are reduced.

- Mexican bean beetles
- Pinworms
- Colorado potato beetles
- European corn borers

Cucumber beetles  
Leafminers  
Vine borers  
Cutworms  
Weevils

Bean leaf beetles  
Leafrollers  
Grape leaf skeletonizers  
Twig girdlers  
Codling moths

CROPS

Broccoli  
Turnips  
Cabbage  
Tomatoes  
Melons  
Kale  
Mustard  
Peppers  
Lentils  
Squash  
Lettuce  
Beans  
Corn  
Potatoes  
Peanuts  
Asparagus  
Garlic  
Parsley  
Radishes  
Rutabaga  
Anise  
Mint  
Dill  
Rosemary  
Sweet bay  
Thyme  
Almonds  
Pecans  
Pistachios  
Apples  
Pumpkins  
Peaches  
Plums  
Figs

Lemons  
Cauliflower  
Celery  
Kohlrabi  
Carrots  
Spinach  
Turnip greens  
Brussels sprouts  
Sweet potatoes  
Cucumbers  
Collards  
Beets  
Peas  
Eggplants  
Ginger  
Artichokes  
Onions  
Turnips  
Bok choy  
Collard greens  
Mustard greens  
Basil  
Chives  
Marjoram  
Sage  
Tarragon  
Wintergreen  
Cashews  
Macadamia nuts  
Walnuts  
Cherries  
Cantaloupes  
Pears  
Apricots  
Oranges  
Limes

**The Following Section Contains Directions for Use of the product in a Hose-End Applicator**

**HOSE END APPLICATOR INSTRUCTIONS:**

1. Remove plastic wrap from carton and detach hose-end attachment.
2. Screw the longer end of the hose-end attachment onto hose.
3. Set valve switch to off position (at right angle to line of water flow).
4. Remove child resistant cap from product bottle and screw bottle top onto hose-end attachment until tight.
5. Turn faucet on. Begin spraying by turning the valve switch located on top of the attachment clockwise until fully in line with water flow.
6. When spraying is complete, turn valve switch counter clockwise to stop product flow.
7. Turn off faucet.
8. Unscrew product bottle from hose-end attachment, recap bottle and if empty dispose of according to label directions. Unscrew hose-end attachment from hose.

**Alternate Hose End Applicator Instructions**

1. Make sure knob is twisted fully clockwise to OFF position. Shake well, then attach to hose.
2. Turn Product Control Button clockwise until the flat portion is flush with the lock tab, then push button all the way in. Avoid squeezing the bottle.
3. Turn water on at faucet, aim nozzle toward surface to be sprayed and turn knob counter-clockwise to begin spraying.
4. When finished, push Product Control Button to OFF position from opposite side. Return knob and faucet to OFF position. Discharge water pressure by turning knob On and OFF again. Turn Product Control Button counter-clockwise away from lock tab to prevent accidental discharge. Store out of reach of children.

(7) **Foliar Application (Bedding and Potted Plants):** For use on bedding plants, potted and foliage plants, ornamentals in and around homes to control the immature or larval forms of the following insect pests:

PESTS

- Leafhoppers
- Leafminers
- Whiteflies
- Thrips
- Mealybugs
- Loopers
- Caterpillars
- Beet armyworms
- Aphids

USE DIRECTIONS

The 16 oz. hose end applicator for bedding and potted plants will treat approximately 650 square feet of plant material 3 times. Repeat application 2 to 3 times at an interval of 7-10 days. Apply to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application. Do not apply to known sensitive plants without a prior small scale test application.

(8) **Foliar Application (Trees and Shrubs)**

For use on trees and shrubs on home landscapes to control the immature larval stages of the following insect pests:

PESTS

- Leafminers
- Leafhoppers
- Gypsy moths
- Weevils
- Psyllids
- Webworms
- Hornworms
- Spruce budworms
- Pine sawflies
- Elm leaf beetle
- Grasshoppers

USE DIRECTIONS

The 16 oz. hose end applicator for trees and shrubs will treat up to 5 ten foot trees. . *(The 32 oz. hose-end applicator for trees and shrubs will treat up to 10 ten foot trees.)* Repeat application 2 to 3 times at an interval of 7-10 days. Apply to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application.

(9) **Lawn Application:** For use on home lawns to control the immature larval stages of the following insect pests:

**PESTS**

Mole crickets  
White grubs  
Sod webworms  
Fall armyworms  
Chinch bugs  
Hyperodes weevil  
Billbugs

**USE DIRECTIONS**

The 16 oz. hose-end applicator for lawns will treat approximately 1,000-2,000 square feet. *(The 32 oz. hose-end applicator for lawns will treat approximately 2,000-4,000 square feet.)*  
Apply MEEN 2-3 times on a 7-10 day interval to insure effective control of surface and sub-surface feeding pests.

**10) Hose-end Sprayer Refill <sup>(a)</sup>**

1. Remove child resistant cap from product bottle and screw bottle top onto hose-end attachment until tight.
2. Turn faucet on. Begin spraying by turning the valve switch located on top of the attachment clockwise until fully in line with water flow.
3. When spraying is complete, turn valve switch counter clockwise to stop product flow.
4. Turn off faucet.
5. Unscrew product bottle from hose-end attachment, recap bottle and if empty dispose of according to label directions. Unscrew hose-end attachment from hose.

(a) Will also contain appropriate application directions as per the foregoing.

**The Following Section Contains Directions For Use Of The Product As A Repellent**

**Repellency Against Japanese Beetles and Other Pests:**

MEEN repels a variety of pests including armyworms, aphids, and Japanese Beetles. Dilute MEEN to a concentration of 3 fl. Oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Mix thoroughly. Apply to plants with a hand sprayer, being sure to completely cover foliage and flowers. Apply just before pests emerge or at first sign of infestation. Repeat applications every 3-7 days or immediately after significant rainfall.

**Storage and Disposal**

**Pesticide Storage:** Keep in original container. Store in a cool, dry place, away from direct sunlight, feed or foodstuffs. Keep container tightly sealed when not in use. Do not store below 50°F (10°C) or above 95°F (35°C).

**Pesticide and Container Handling:**

**If empty:** Nonrefillable 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 or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**WARRANTY**

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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