

83362-2

10/20/2010

10/14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Ms. Amy Roberts, Regulatory Consultant for FourStar Microbials LLC
Technology Sciences Group, Inc.
712 5th Street, Suite A
Davis, CA 95616

OCT 20 2010

Re: Meridian-02
EPA Registration No. 83362-2
Minor Label ("Fast Track") Amendment
Application Dated 07/05/10

Dear Ms. Roberts:

The Agency has reviewed your request to amend the subject product registration, which included the following changes to the product label:

- 1) Update the master label to have the EPA Reg. No. and company name and address post-transfer;
- 2) Update the container disposal statements per PRN 2007-4; and
- 3) Other clarifications and minor revisions.

The changes referred to above, submitted in connection with registration under FIFRA section 3(c)(5), are acceptable provided that you:

- 1) Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2) Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of a final printed label.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. If you have any questions please contact Anna Gross at: 703-305-5614 or by email at: gross.anna@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,

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

CONCURRENCES

SYMBOL	7511P	7511P	7511P				
SURNAME	GROSS	Reynolds	Reilly				
DATE	10/19/10	10/19/10	10/20/10				

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MERIDIAN - 02

[Alternate Brand Names: FourStar, FourStar Bti Briquets, FourStar Bti Briquets 45, FourStar Bti Briquets 150, FourStar Bti Catch Basin Briquets 45, FourStar Bti Catch Basin Briquets 150]

- Sublabel A: Commercial Use – small/large briquet**
- Sublabel B: Commercial Use – small/large briquet (catch basin)**
- Sublabel C: Residential Use – small/large briquet**

Optional Label Claims

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids, spores and insecticidal toxins* 7.00%

OTHER INGREDIENTS:..... 93.00%

TOTAL:..... 100.00%

* Equivalent to 490 International Toxic Units (ITU/mg) Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

EPA Reg. No.: 83362-2

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbials, LLC
3330 Noyac Road
Sag Harbor, NY 11963

ACCEPTED

OCT 20 2010

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 83362-2

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Sublabel A: Commercial Use – small/large briquet

MERIDIAN - 02

[Alternate Brand Names: FourStar, FourStar Bti Briquets, FourStar Bti Briquets 45, FourStar Bti Briquets 150, FourStar Bti Catch Basin Briquets 45, FourStar Bti Catch Basin Briquets 150]

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**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

Net Contents: (10 g or 12.5 g = small briquet) (32 g or 44 g = large briquet)

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • 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 poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. • Call poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.</p>	

DIRECTIONS FOR USE

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

INTRODUCTION

MERIDIAN-02 is a highly selective microbial insecticide effective against mosquitoes in a variety of habitats for up to [45 days (for small briquet)] [150 days (for large briquet)] or more. **MERIDIAN-02** briquets release effective levels of *Bacillus thuringiensis* subspecies *israelensis* (Bti) to the water surface over time as the briquet dissolves.

MERIDIAN-02 can be applied to areas that contain aquatic life, fish and plants. **MERIDIAN-02** can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife. Apply **MERIDIAN-02** to any water sites except treated, finished water reservoirs or drinking water receptacles.

APPLICATION SITES

Examples of application sites include: Flood water, roadside ditches, irrigation ditches, rice fields, pastures, woodland pools, snowmelt pools, tidal water, salt marshes, catch basins, storm drains, storm water retention areas, detention ponds, lakes, golf course ponds, irrigation ponds, ornamental zoo ponds, abandoned swimming pools, ornamental ponds, fish ponds, water gardens, greenhouses, nurseries, tree holes, animal drinking troughs, standing water, water holding receptacles (old tires, urns, flower pots, cans and other containers), man made and natural sites where mosquitoes may develop.

APPLICATION TIME

Apply **MERIDIAN-02** to known mosquito breeding sites before, or at any time during the mosquito season. Apply **MERIDIAN-02** to known breeding sites when the sites are wet or dry and briquets will begin releasing Bti when flooding occurs. Under typical environmental conditions, one (1) application will control for [45 days (for small briquet)] [150 days (for large briquet)] or more. Alternate wetting and drying will not reduce briquet effectiveness. **MERIDIAN-02** briquets perform optimally under shaded conditions.

The active ingredient Bti has no effect on mosquitoes that have reached the pupal or adult stage prior to treatment. Allow a minimum of 48 hours for control.

APPLICATION RATES

For control of mosquito larvae, place one (1) briquet in sites up to 100 square feet of surface area. For large sites, apply 1 additional briquet for each additional 100 square feet of water surface, regardless of water depth. When mosquito populations are high, water is heavily polluted, and/or algae are abundant, double the above application rate

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling: Nonrefillable container. Do not reuse or refill this container. Perforate or crush and discard carton in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO USER

To the extent consistent with applicable law, seller makes no warranty express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with label instructions.

EPA Reg. No.: 83362-2

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbials, LLC

3330 Noyac Road

Sag Harbor, NY 11963

For product information, call 1-877-264-6655

Sublabel B: Commercial Use – small/large briquet (catch basin)

MERIDIAN - 02

[Alternate Brand Names: FourStar, FourStar Bti Briquets, FourStar Bti Briquets 45, FourStar Bti Briquets 150, FourStar Bti Catch Basin Briquets 45, FourStar Bti Catch Basin Briquets 150]

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids, spores and insecticidal toxins* 7.00%

OTHER INGREDIENTS:..... 93.00%

TOTAL:..... 100.00%

* Equivalent to 490 International Toxic Units (ITU/mg) Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

Net Contents: (10 g or 12.5 g = small briquet) (32 g or 44 g = large briquet)

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • 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 poison control center or doctor for treatment advice.
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DIRECTIONS FOR USE

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

INTRODUCTION

MERIDIAN-02 is a highly selective microbial insecticide effective against mosquitoes in a variety of habitats for up to [45 days (for small briquet)] [150 days (for large briquet)] or more. **MERIDIAN-02** briquets release effective levels of *Bacillus thuringiensis* subspecies *israelensis* (Bti) to the water surface over time as the briquet dissolves.

MERIDIAN-02 can be applied to areas that contain aquatic life, fish and plants. **MERIDIAN-02** can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife. Apply **MERIDIAN-02** to any water sites except treated, finished water reservoirs or drinking water receptacles.

APPLICATION SITES

Examples of application sites include: catch basins, storm drains, underground drainage systems, storm water retention areas, detention ponds, abandoned swimming pools, ornamental fountains and ponds, fish ponds, water gardens, tree holes, animal drinking troughs, standing water, water holding receptacles (old tires, urns, flower pots, cans and other containers), man made and natural sites where mosquitoes may develop.

APPLICATION TIME

Apply **MERIDIAN-02** to known mosquito breeding sites before, or at any time during the mosquito season. Apply **MERIDIAN-02** to known breeding sites when the sites are wet or dry and briquets will begin releasing Bti when flooding occurs. Under typical environmental conditions, one (1) application will control for [45 days (for small briquet)] [150 days (for large briquet)] or more. Alternate wetting and drying will not reduce briquet effectiveness. **MERIDIAN-02** briquets perform optimally under shaded conditions.

The active ingredient Bti has no effect on mosquitoes that have reached the pupal or adult stage prior to treatment. Allow a minimum of 48 hours for control.

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APPLICATION RATES

For control of mosquito larvae, place one (1) briquet in sites up to 100 square feet of surface area. For large sites, apply 1 additional briquet for each additional 100 square feet of water surface, regardless of water depth. When mosquito populations are high, water is heavily polluted, and/or algae are abundant, double the above application rate.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling: Nonrefillable container. Do not reuse or refill this container. Perforate or crush and discard carton in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO USER

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EPA Reg. No.: 83362-2

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbials, LLC

3330 Noyac Road

Sag Harbor, NY 11963

For product information, call 1-877-264-6655

Sublabel C: Residential Use – small/large briquet

MERIDIAN - 02

[Alternate Brand Names: FourStar, FourStar Bti Briquets, FourStar Bti Briquets 45, FourStar Bti Briquets 150, FourStar Bti Catch Basin Briquets 45, FourStar Bti Catch Basin Briquets 150]

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TOTAL: 100.00%

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PRECAUTIONARY STATEMENTS

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ENVIRONMENTAL HAZARDS: Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

Net Contents: (10 g or 12.5 g = small briquet) (32 g or 44 g = large briquet)

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

DIRECTIONS FOR USE

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

INTRODUCTION

Mosquitoes are both a nuisance and a serious health threat to people and pets. The recent introduction of mosquito borne West Nile Virus into the United States has made mosquito control more important than ever. In addition to encephalitis, mosquitoes can transmit malaria, dengue, yellow fever and heartworm disease to dogs and cats. **MERIDIAN-02** prevents mosquitoes from completing development into biting adults.

GENERAL DIRECTIONS

Use **MERIDIAN-02** to treat mosquito breeding sites in early spring, or at any time during the mosquito season. Apply **MERIDIAN-02** to nearby low areas that hold rain or runoff water and produce mosquitoes, even when the sites are dry. Under typical environmental conditions, one (1) application will control for [45 days (for small briquet)] [150 days (for large briquet)]. Repeat treatments as needed to prevent adult mosquito emergence. Alternate wetting and drying will not reduce briquet effectiveness, and may extend the control period. **MERIDIAN-02** briquets perform optimally under shaded conditions.

MERIDIAN-02 is a highly selective microbial insecticide effective against mosquitoes in a variety of habitats. Apply **MERIDIAN-02** to containerized standing water or any private water sites except treated, finished drinking water reservoirs, drinking water receptacles or state waters. **MERIDIAN-02** can be applied to areas that contain aquatic life, fish and plants. **MERIDIAN-02** can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.

Treatment Areas (For Use In):

Bird baths	Fountains	Abandoned swimming pools
Statuary	Urns	Unused swimming pools or spas
Old tires	Rain barrels	Other water holding receptacles
Flower pots	Roof gutters	Standing water
Tree holes	Drains	Animal watering troughs
Water gardens	Stock tanks	Ponds
Ornamental fountains	Pool covers	Lagoons

- | | | |
|----------------|--------------|--------------|
| Fish ponds | Planters | Flood water |
| Buckets | Garbage cans | Roof gutters |
| Plastic covers | Wheelbarrows | |
| Plant trays | Hollow trees | |
- Any location where water collects and remains for periods of time.

How to Apply:

To control mosquito larvae, place one (1) briquet in sites up to 100 square feet (10 ft X 10 ft) of surface area. For large sites, apply 1 additional briquet for each additional 100 square feet of surface area, regardless of water depth.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place.

PESTICIDE DISPOSAL AND CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partially filled: Call your local solid waste agency or (800) 858-7378 (National Pesticide Information Center) for disposal instructions. Never place unused product down any indoor or outdoor drain.

NOTICE TO USER:

To the extent consistent with applicable law, seller makes no warranty express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with label instructions.

EPA Reg. No.: 83362-2

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbials, LLC
3330 Noyac Road
Sag Harbor, NY 11963
For product information, call 1-877-264-6655

OPTIONAL LABEL CLAIMS

- Biolarvicide.
- Biological Mosquito Control.
- A Biological Larvicide Briquet.
- Mosquito Biolarvicide Briquet.
- Made with Bti, a microbial active ingredient.
- Concentrated Formula.
- Highly selective microbial larvicide.
- A (highly selective) microbial insecticide effective against mosquitoes in a variety of habitats.
- Easy to use.
- Easy to apply briquets.
- Quick, clean and simple to use.
- Nothing to mix or spray.
- Fast acting.
- Prevents the development of adult mosquitoes.
- Prevents immature mosquitoes from developing into adults.
- Prevents emergence of breeding, biting adult mosquitoes.
- Prevents the development of mosquito larvae.
- Kills developing mosquito larvae.
- (Use) (Apply) in standing water (where mosquitoes may breed); see label for specific use sites.
- (Use) (Apply) in containerized or private standing water (where mosquitoes may breed); see label for specific use sites.
- Kills mosquito larvae in (stagnant) standing water (before they are able to bite) (where they breed). Apply to standing (stagnant) water in your yard.
- For use in all water-holding receptacles (containers) where mosquitoes may breed including water gardens (and animal (horse) watering troughs); see label for specific use sites.

- Effective year-round when mosquito larvae are present.
- Sustained release biological larvicide for long term control of mosquito larvae.
- Biological Mosquito Larvicide with (45 day (for small briquette)) (150 day (for large briquette)) control.
- (45 day (for small briquette)) (150 day (for large briquette)) control.
- Effective [controls] for up to (45 days (for small briquette)) (150 days (for large briquette)) .
- A Sustained Release (45-Day (for small briquette)) (150-Day (for large briquette)) Bti Mosquito Larvicide Briquet.
- Each briquet treats up to 100 square feet.
- Controls mosquitoes.
- Controls mosquito larvae (in standing water) (within 48 hours) (in 48 hours).
- Quickly controls mosquito larvae in (within) 48 hours.
- One application controls all season.
- Season Long Control.
- For use in fish habitats.
- When ingested by mosquito larvae, (product name) prevents mosquitoes from becoming (developing into) breeding, biting adults.
- When ingested by mosquito larvae, (product name) prevents the development of adults.
- When ingested by mosquito larvae, (product name) prevents emergence of breeding, biting adults.
- Kills mosquito larvae upon ingestion of Bt toxins.
- Kills mosquito larvae upon ingestion by destroying the cellular lining of the insect digestive tract.
- (Product name) is a highly selective microbial insecticide effective against mosquito larvae including those which may (can) transmit (carry) West Nile Virus.
- Kills (mosquitoes) (developing mosquitoes) (mosquito larvae) (before they hatch) including those which may (can) transmit (carry) West Nile Virus (and encephalitis) (and equine encephalitis).

- Kills (mosquitoes) (developing mosquitoes) (mosquito larvae) before they become breeding, biting adults, including those which may (can) transmit (carry) West Nile Virus (and encephalitis) (and equine encephalitis).
- Kills (mosquitoes) (developing mosquitoes) (mosquito larvae) (before they hatch) including those which may (can) transmit (West Nile Virus and) heartworm disease (to dogs and cats).
- Dual Action Release
- (A) Controlled (Sustained) Release [45 day] [150 day] Catch Basin Briquet(s)
- U.S. Patent Pending
- Always read the label before using product