

85685-4

2/7/2013

1/19



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511C)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number:

85685-4

Date of Issuance:

FEB 07 2013

Term of Issuance:

Unconditional

Name of Pesticide Product:

FourStar® Bti CRG

NOTICE OF PESTICIDE:

☒ Registration☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

FourStar Microbial Products, Inc.
3330 Noyac Road, Bldg. E
Sag Harbor, NY 11963

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention 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 under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). 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 her 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 registration does not eliminate the need for continual reassessment of the pesticide. If the EPA determines at any time that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) and is subject to the following terms:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 85685-4."
3. Submit an acceptable data package within 18 months of the date of registration for the following Guideline Studies: OCSPP 830.6317 (Storage Stability) and OCSPP 830.6320 (Corrosion Characteristics) for one year.
4. Submit three (3) copies of the revised final printed labeling before you release the product for shipment.

A stamped copy of the label and an A-79 Enclosure are enclosed for your records.

Signature of Approving Official:

Keith A. Mathews, Director

Biopesticides and Pollution Prevention Division (7511P)

Date:

07 February 2013

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FourStar® Bti CRG
(Multi-Brood Controlled Release Granule)

Sublabel A:	Commercial Use
Sublabel B:	Commercial Use – Water Soluble Pouch
Sublabel C:	Residential Use
Optional Label Claims	

ACTIVE INGREDIENTS:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids,
spores and insecticidal toxins* 10.00%

OTHER INGREDIENTS: 90.00%

TOTAL: 100.00%

*Equivalent to 700 International Toxic Units (ITU/mg). Note: The percent active ingredient does not indicate product performance, and potency measurements are not federally standardized.

EPA Reg. No.: (Pending as File Symbol 85685-⁴U)
EPA Establishment No.: XXXXX-XX-XX

Manufactured for:
FourStar Microbial Products LLC
3330 Noyac Road, Bldg. E
Sag Harbor, NY 11963

U.S. Patent No. 5,484,600

ACCEPTED

FEB 07 2013

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

85685-4

3/14

Sublabel A: Commercial Use

FourStar® Bti CRG

(Multi-Brood Controlled Release Granule)

ACTIVE INGREDIENTS:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids,
spores and insecticidal toxins* 10.00%

OTHER INGREDIENTS: 90.00%

TOTAL: 100.00%

*Equivalent to 700 International Toxic Units (ITU/mg). Note: The percent active ingredient does not indicate product performance, and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN CAUTION

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 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.
If on skin	<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.
HOT LINE NUMBER	
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.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Mixers/loaders and applicators not in enclosed cabs or aircraft must wear gloves and a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENVIRONMENTAL HAZARDS:

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

DIRECTIONS FOR USE

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

APPLICATION DIRECTIONS

FourStar Bti CRG is a highly selective multi-brood microbial insecticide granule effective against mosquito larvae in a variety of aquatic habitats for up to 40 days or more. **FourStar Bti CRG** releases effective levels of *Bacillus thuringiensis* subspecies *israelensis* to the water surface and throughout the water column over time.

FourStar Bti CRG can be applied prior to flooding (i.e. "pre-hatch") to known breeding sites that flood intermittently. In such areas, one application of **FourStar Bti CRG** prevents adult mosquito emergence for up to four subsequent floodings. The actual length of control depends on the duration and frequency of flooding events. Alternate wetting and drying will not reduce granule effectiveness.

Apply uniformly according to rates listed below by conventional aerial or ground equipment as needed to maintain mosquito control. Reapply after 40 days under typical environmental conditions. More frequent applications may be made if monitoring indicates that larval populations have reestablished or weather conditions have rendered initial treatments ineffective.

APPLICATION SITES

Apply **FourStar Bti CRG** pre-hatch or post-hatch as directed above to temporary and permanent water sites, which support mosquito larval development. **FourStar Bti CRG** can be applied to areas that contain aquatic life, fish and plants as well as areas in contact with humans, animals, horses, livestock, pets, birds or wildlife.

Examples of application sites include: tidal water, salt marshes, mangroves, estuaries, freshwater marshes, cattail marshes, woodland pools and meadows, grassy swales, floodplains, flood water, standing water, roadside ditches, canals, woodland pools, catch basins, storm drains, storm water collection areas, retention and detention impoundments, lakes and ponds, abandoned swimming pools, water holding receptacles, and other natural and man-made sites where mosquitoes may develop.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential spray drift. The applicator and treatment coordinator are responsible for considering all these factors when making decisions.

APPLICATION RATES

To control mosquito larvae, apply 7.5 to 10 lbs of **FourStar Bti CRG** per acre. Use 10 to 20 lbs of **FourStar Bti CRG** per acre where late instar larvae predominate, larval populations are high, water is heavily polluted and/or algae are abundant, or under conditions where local experience indicates the need for higher rates to achieve extended control.

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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. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

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.

U.S. Patent No. 5,484,600

EPA Reg. No.: (Pending as File Symbol 85685-U)

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbial Products LLC
3330 Noyac Road, Bldg. E
Sag Harbor, NY 11963

Net Contents: XX

Lot No.: XX

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Sublabel B: Commercial Use – Water Soluble Pouch

FourStar® Bti CRG (Water Soluble Pouches)

ACTIVE INGREDIENTS:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids,
spores and insecticidal toxins* 10.00%

OTHER INGREDIENTS: 90.00%

TOTAL: 100.00%

*Equivalent to 700 International Toxic Units (ITU/mg). Note: The percent active ingredient does not indicate product performance, and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
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.
If on skin	<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.
HOT LINE NUMBER	
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.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION:

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENVIRONMENTAL HAZARDS:

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

DIRECTIONS FOR USE

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

APPLICATION DIRECTIONS

FourStar Bti CRG Water Soluble Pouches (WSP) is a highly selective microbial insecticide effective against mosquito larvae in a variety of habitats for up to 40 days or more. **FourStar**

FourStar® Bti CRG; EPA Reg. No. (Pending as File Symbol 85685-U)

MASTER LABEL - Version (3) dated January 30, 2013

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Bti CRG WSP are convenient ready-to-use packets for treating mosquito breeding sites. **FourStar Bti CRG WSP** release effective levels of *Bacillus thuringiensis* subspecies *israelensis* to the water surface over time.

FourStar Bti CRG WSP can be applied prior to flooding (i.e. "pre-hatch") to known breeding sites that flood intermittently. The actual length of control depends on the duration and frequency of flooding events. Alternate wetting and drying will not reduce granule effectiveness.

Apply uniformly according to rates listed below by hand as needed to maintain mosquito control. Reapply after 40 days under typical environmental conditions. More frequent applications may be made if monitoring indicates that larval populations have reestablished or weather conditions have rendered initial treatments ineffective.

Once the (foil) bag containing Water Soluble Pouches is opened, minimize exposure of the Water Soluble Pouch to humidity.

APPLICATION SITES

FourStar Bti CRG WSP can be applied to areas that contain aquatic life, fish and plants as well as areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife. Examples of application sites include, but are not limited to: storm drains, catch basins, underground drainage systems, storm water retention areas, retention and detention ponds, abandoned swimming pools, ornamental fountains and ponds, fish ponds, water gardens, standing water, water holding receptacles (old tires, urns, flower pots, cans and other containers), man-made and natural sites where mosquitoes may develop.

APPLICATION RATES

For control of mosquito larvae, place one (1) **FourStar Bti CRG WSP** pouch in sites up to 50 square feet of surface area. For larger sites, apply 1 additional pouch for each additional 50 square feet of water surface. In areas where residual control is necessary, or in habitats having deep water or dense surface cover, 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. As long as WSP is unbroken, dispose of the empty outer foil pouch in the trash or by other procedures approved by state and local authorities or offer for recycling if available.

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. User assumes all risks of use, storage or handling not in strict accordance with label instructions.

EPA Reg. No.: (Pending as File Symbol 85685-U)

EPA Establishment No.: XXXXX-XX-XX

8/14

Manufactured for:

FourStar Microbial Products LLC
3330 Noyac Road, Bldg. E
Sag Harbor, NY 11963

Net Contents: XX

Lot No.: XX

U.S. Patent No. 5,484,600

Sublabel C: Residential Use

FourStar[®] Bti CRG

(Multi-Brood Controlled Release Granule)

ACTIVE INGREDIENTS:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids,
spores and insecticidal toxins* 10.00%

OTHER INGREDIENTS: 90.00%

TOTAL: 100.00%

*Equivalent to 700 International Toxic Units (ITU/mg). Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN CAUTION

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 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.
If on skin	<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.
HOT LINE NUMBER	
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.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION:

Causes moderate eye irritation. Avoid contact with eyes, or clothing. Wear gloves, safety goggles, and a mask covering your mouth and nose when using product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS:

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

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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

FourStar Bti CRG granules are an easy and effective way to kill developing mosquitoes in standing water before they become biting adults. With just one bite, adult mosquitoes may transmit West Nile virus and other viruses that can cause encephalitis in both people and animals. They may also transmit heartworms to dogs and cats. **FourStar Bti CRG** slowly releases bacteria into the water to prevent adult mosquito development for up to 40 days or more. Mosquito larvae exposed to treated water will die before they reach adulthood.

GENERAL DIRECTIONS

FourStar Bti CRG, is a highly selective biological larvicide effective against mosquito larvae in a variety of habitats. Apply **FourStar Bti CRG** to containerized standing water or any private water sites except treated, finished drinking water reservoirs, drinking water receptacles or state waters. **FourStar Bti CRG** can be applied to areas that contain aquatic life, fish and plants as well as areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.

Examples of application sites include, but are not limited to:

Bird baths		Garbage cans
Fountains	Plastic covers	Buckets
Water gardens	Flower pots	Wheelbarrows
Fish ponds	Planters	Standing water
Ornamental Ponds	Urns	Flood water
Unused swimming pools	Roof gutters	Natural depressions
Unused spas	Old tires	Man-made depressions
Pool covers	Rain barrels	

How to Apply:

Uniformly apply **FourStar Bti CRG** in standing water areas where mosquitoes may develop. Use one (1) teaspoon in sites up to 40 square feet of water surface area. For larger areas, apply one (1) cup per 2400 square feet of surface area. Repeat treatments as needed to prevent adult mosquito emergence.

- (Sprinkle 1 pound to cover 4356 square feet)
- (Sprinkle ½ pound to cover 2178 square feet)
- (Sprinkle 1 cup per 2400 square feet)
- (Sprinkle ¼ cup per 600 square feet)
- (Sprinkle 1 tablespoon per 140 square feet)
- (Sprinkle 1 teaspoon per 40 square feet)

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(optional chart)

APPLICATION RATES	
Amount of Product	Treatment Area
¼ tsp.	10 sq. ft.
½ tsp.	20 sq. ft.
1 tsp.	40 sq. ft.
½ tbsp.	70 sq. ft.
1 tbsp.	140 sq. ft.
¼ cup	600 sq. ft.
½ cup	1,200 sq. ft.
1 cup	2,400 sq. ft.
1 lb.	4356 sq. ft.

Do not use food utensils such as tablespoons or measuring cups for food purposes after use with insecticides.

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. User assumes all risks of use, storage or handling not in strict accordance with label instructions.

EPA Reg. No.: (Pending as File Symbol 85685-U)

EPA Establishment No.: XXXXX-XX-XX

Manufactured for:

FourStar Microbial Products LLC
3330 Noyac Road, Bldg. E
Sag Harbor, NY 11963

Net Contents: XX

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Lot No.: XX

U.S. Patent No. 5,484,600

OPTIONAL LABEL CLAIMS

- Biolarvicide.
- Biological Mosquito Control.
- (A) Biological Larvicide Granule(s).
- Mosquito Biolarvicide Granules.
- Made with microbial active ingredient.
- Highly selective microbial larvicide.
- Highly effective for floodwater mosquito control
- Optimized for floodwater mosquito control
- A (highly selective) microbial insecticide effective against mosquitoes in a variety of habitats.
- Easy to use.
- Effective year-round when mosquito larvae are present.
- Easy to apply granules.
- Quick, clean and simple to use.
- Nothing to mix or spray.
- Prevents the development of adult mosquitoes.
- Prevents immature mosquitoes from developing into adults.
- Prevents emergence of biting adult mosquitoes.
- 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; 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 (Granule) provides up to 40 days control.
- Effective [controls] for up to 5 weeks (40 days).
- Controls mosquito(s) (larvae).
- Controls mosquito larvae (in standing water).
- One application controls for up to 5 weeks (40 days).
- For use in fish habitats.
- When bacteria released by (product name) are ingested by mosquito larvae, mosquitoes are prevented from developing into biting adults.
- 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 bacteria are ingested by mosquito larvae, (product name) prevents emergence of breeding, biting adults.
- Kills mosquito larvae upon ingestion of bacteria.
- 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 (logo)