

85685-1

07/07/2011

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

JUL - 7 2011

Ms. Amy Plato Roberts  
Technology Sciences Group  
712 Fifth St., Suite A  
Davis, CA 95616

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Subject: Addition of an Alternate Formulation; Label Amendment to Modify Application Rate; and Your Confidential Statement of Formula (CSF) Dated January 31, 2011  
EPA Registration No. 85685-1

Dear Ms. Amy Plato Roberts:

The product chemistry of Four Star Alternate Formula, the supporting field evaluation data (MRIDs 48370801 and -02) and the alternate CSF dated January 31, 2011 were found acceptable.

The amendment to add Alternate Formulation and amend the label referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration 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. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

A stamped copy of the label is enclosed for your records.

Sincerely,

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

CONCURRENCES

SYMBOL	▶ 7511P	7511P						
SURNAME	▶ <i>Storall</i>	<i>Reilly</i>						
DATE	▶ 7/6/11	7/6/11						

# MASTER LABEL

## FourStar<sup>®</sup> SBG

<b>Sublabel A:</b>	<b>Commercial Use</b>
<b>Sublabel B:</b>	<b>Residential Use</b>
<b>Optional Label Claims</b>	

[Alternate Brand Names: FourStar<sup>®</sup> Single Brood Granule, FourStar<sup>®</sup> Bti Sand Granule, FourStar<sup>®</sup> Bti Granule]

**ACTIVE INGREDIENT:**

*Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 solids, spores and insecticidal toxins\* ..... 2.15%

**OTHER INGREDIENTS:** ..... 97.85%

**TOTAL:** ..... 100.00%

\*Equivalent to 150 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.:** 85685-1

**EPA Establishment No.:** XXXXX-XX-XX

**Manufactured for:**

FourStar Microbial Products LLC  
3330 Noyac Road, Bldg. D-2  
Sag Harbor, NY 11963

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

# ACCEPTED

JUL - 7 2011

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

85685-1

**Sublabel A: Commercial Use**

# FourStar<sup>®</sup> SBG

[Alternate Brand Names: FourStar<sup>®</sup> Single Brood Granule, FourStar<sup>®</sup> Bti Sand Granule, FourStar<sup>®</sup> Bti Granule]

**ACTIVE INGREDIENT:**

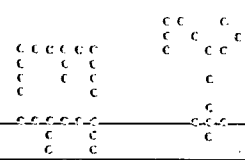
*Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 solids, spores and insecticidal toxins\* ..... 2.15%

**OTHER INGREDIENTS:** ..... 97.85%

**TOTAL:** ..... 100.00%

\*Equivalent to 150 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**



<b>FIRST AID</b>	
<b>If on skin</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
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.	

**EPA Reg. No.:** 85685-1  
**EPA Establishment No.:** XXXXX-XX-XX

**Manufactured by:**  
FourStar Microbial Products LLC  
3330 Noyac Road, Bldg. D-2  
Sag Harbor, NY 11963

**Net Contents:** XX

**Lot No.:** XX

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION.** Harmful if absorbed through skin or if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust. 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 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 directly 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 SBG** is a highly selective single brood microbial insecticide effective against mosquito larvae in a variety of aquatic habitats. **FourStar SBG** releases effective levels of *Bacillus thuringiensis* subspecies *israelensis* to the water surface and throughout the water column. Apply uniformly according to rates listed below by conventional aerial or ground equipment as needed to maintain mosquito control. For permanently flooded habitats, a 7 to 14 day interval between applications should be employed.

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 SITES

**FourStar SBG** 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: flood water, standing water, roadside ditches, irrigation ditches, pastures, woodland pools, snow melt pools, tidal water, salt marshes, mangroves, estuaries, catch basins, storm drains, storm water collection areas, retention and detention impoundments, irrigation reservoirs, lakes and ponds, abandoned swimming pools, ornamental fountains and ponds, water gardens, animal drinking troughs, water holding receptacles, rice fields, standing water in agricultural fields.

### APPLICATION RATES

To control mosquito larvae, apply 3 to 10 lbs of **FourStar SBG** per acre. Use 10 to 20 lbs of **FourStar SBG** per acre when late 3<sup>rd</sup> and early 4<sup>th</sup> instar larvae predominate, larval populations are high, water is heavily polluted and/or algae are abundant.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool [60-80°F (15-27°C)], 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 Disposal:** 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

**Sublabel B: Residential Use**

# FourStar<sup>®</sup> SBG

[*Alternate Brand Names: FourStar<sup>®</sup> Single Brood Granule, FourStar<sup>®</sup> Bti Sand Granule, FourStar<sup>®</sup> Bti Granule*]

**ACTIVE INGREDIENT:**

*Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 solids,  
spores and insecticidal toxins\* ..... 2.15%

**OTHER INGREDIENTS:** ..... 97.85%

**TOTAL:** ..... 100.00%

\*Equivalent to 150 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	
<b>If on skin</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
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.	

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**Manufactured by:**

FourStar Microbial Products LLC  
3330 Noyac Road, Bldg. D-2  
Sag Harbor, NY 11963

**Net Contents:** XX

**Lot No.:** XX

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if absorbed through skin or if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. As a general precaution when exposed to potentially high concentrations of living microbial products such as this, wear a dust particle mask when mixing or applying this product.

**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.

**INTRODUCTION**

**FourStar SBG** (is) (are) an easy and effective way to kill developing mosquitoes in standing water before they become biting adults.

**DIRECTIONS**

**FourStar SBG** is a highly selective microbial larvicide effective against mosquitoes in a variety of aquatic habitats. Apply **FourStar SBG** to containerized standing water or any private water sites except treated, finished drinking water reservoirs, drinking water receptacles or state waters. **FourStar SBG** 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.

**Apply to any site where standing water accumulates, such as:**

- |                       |                         |                |
|-----------------------|-------------------------|----------------|
| Bird baths            | Plastic covers          | Rain barrels   |
| Fountains             | Flower pots             | Garbage cans   |
| Water gardens         | Planters                | Buckets        |
| Ponds                 | Urns                    | Wheelbarrows   |
| Ornamental Ponds      | Roof gutters            | Standing water |
| Unused swimming pools | Old tires               | Tree holes     |
| Unused spas           | Stock tanks             | Flood water    |
| Pool covers           | Animal watering troughs |                |

**How to Apply:**

Uniformly apply **FourStar SBG** in standing water areas where mosquitoes may develop. Use one (1) teaspoon in sites up to 60 square feet of water surface area. For larger areas, apply one (1) cup per 3000 square feet of surface area. Repeat treatments as needed at 7 to 14 day intervals to prevent adult mosquito emergence.

(optional chart)

APPLICATION RATES	
Amount of Product	Treatment Area
¼ tsp.	15 sq. ft.
½ tsp.	30 sq. ft.
1 tsp.	60 sq. ft.
½ tbsp.	90 sq. ft.
1 tbsp.	180 sq. ft.
¼ cup	750 sq. ft.
½ cup	1,500 sq. ft.
1 cup	3,000 sq. ft.
½ lb.	2178 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.

- (Sprinkle 1 pound to cover 4356 square feet)
- (Sprinkle ½ pound to cover 2178 square feet)
- (Sprinkle 1 cup per 3000 square feet)
- (Sprinkle ¼ cup per 750 square feet)
- (Sprinkle 1 tablespoon per 180 square feet)
- (Sprinkle 1 teaspoon per 60 square feet)

**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.

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



**OPTIONAL LABEL CLAIMS**

- Biolarvicide.
- Biological Mosquito Control.
- (A) Biological Larvicide Granule(s).
- Mosquito Biolarvicide Granule.
- Single Brood Bti Sand Granule.
- Made with microbial active ingredients.
- Highly selective microbial larvicide.
- Concentrated Formula (treats over 8,700 square feet – *claim for Sublabel A only*)
- Controls mosquitoes.
- For use in fish habitats.
- A (highly selective) microbial insecticide effective against mosquitoes in a variety of habitats.
- Easy to use.
- 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.
- Stop 'em before they start!
- Fast acting.
- Made with Bti, a microbial active ingredient.
- "Smart" larvicide specifically targets mosquito larvae.
- Patented formula (technology)
- Controls mosquito larvae (in standing water)(within 24 hours)(in 24 hours).
- Quickly controls mosquito larvae in (within) 24 hours.

- (Use) (Apply) in standing water (where mosquitoes may breed); see label Directions for Use for specific use sites.
- (Use) (Apply) in containerized or private standing water (where mosquitoes may breed); see label Direction for Use 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 Directions for Use for specific use sites.
- When bacteria release 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 is ingested by mosquito larvae, (product name) prevents emergence of breeding, biting adults.
- 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)