MOSQUITO MANAGEMENT THAT MAKES SENSE

The portfolio of products offered by Central Life Sciences is unmatched in the mosquito control industry. We believe a complete Integrated Mosquito Management (IMM) program that utilizes both larvicides and adulticides is vital for mosquito abatement.

Insect Growth Regulators (IGRs) have long played a key role in our highly successful and proven line of biorational products. Central Life Sciences now carries the innovative FourStar® microbial larvicides to work alongside our multiple formulations of Altosid® larvicide to meet the varied needs of mosquito control professionals. Add to that the advanced formulations of Zenivex® adulticides and the solid performance of Mavrik® Perimeter and you have a superior class of mosquito control products that can be relied upon year after year.
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INTEGRATED MOSQUITO MANAGEMENT (IMM) PROGRAMS

PLANNING
Develop a multifaceted approach for controlling mosquitoes in your area. Exploit the mosquitoes’ own biology and behavior, while using cost-effective, carefully timed larvicidal and high impact, low volume adulticidal applications. A successful integrated program not only relies on specific control products, but also a specific process.

MONITORING
Every good mosquito control program is an ongoing one. Monitoring larval and adult mosquito populations is essential to accurately estimate the need and effectiveness of control measures. Monitoring also helps identify problem areas where you should concentrate your control efforts.

There are a variety of methods for this type of tracking:
• Landing counts, which record the number of adults that land on an unprotected arm over a certain period of time.
• Light traps that catch adult mosquitoes.
• Dip counts, which record the average number of larvae and pupae located on the surface of a body of water.
• Pupae collection for monitoring the effectiveness of product applications.

HABITAT REDUCTION
Because water is the critical element in the development of mosquitoes, managing standing water is essential. Reducing mosquito breeding sites can be as simple as clearing a street gutter or removing trash and old tires. It can be as major as reworking landscaping and approved ditching in marshland. While it is impossible to rectify every standing water problem, it is reassuring to know that Altosid® and FourStar® larvicides offer effective solutions to many mosquito control issues.
MOSQUITO LIFE CYCLE

EGGS
Mosquitoes lay their eggs on the surface of standing water or soil that periodically floods. In water, mosquito eggs hatch in just a few days or, in some cases, just a few hours, but can lie dormant for long periods in dry conditions.

LARVAE (WRIGGLERS OR WIGGLERS)
This is the aquatic stage of the mosquito’s life cycle where FourStar® larvicide formulations take effect. Larvae actively feed as they mature into the pupa stage. Mosquito larvae undergo four molts, or instars, during their development into pupae. It is in the first three instars that ingestion of FourStar® larvicide is fatal. Depending on temperature and conditions, a mosquito larva can develop into a pupa in as little as four days.

PUPAE (TUMBLERS)
This is a resting, non-feeding aquatic stage, after which newly formed adults emerge. Signs of Altosid® larvicide’s effect is evident at this stage, halting pupal development. The active ingredient mimics a juvenile hormone that prevents pupae from transitioning into adulthood.

ADULTS
This is the only stage where the mosquito is terrestrial and able to fly. It emerges from the pupa stage as an active flier, looking for a mate. Males live only a short time after mating, usually six days. Females survive from two weeks to four months. Only adult female mosquitoes are able to bite. To control mosquito populations at this stage, an adulticide such as Zenivex® or Mavrik® Perimeter is necessary.
A. Zenivex® mosquito adulticide and Mavrik® Perimeter treatment provide quick, permanent knockdown of adult mosquitoes.

B. Mosquitoes lay their eggs in standing water, like ponds, ditches and catch basins. FourStar® larvicides can be applied in these areas.

C. Growing mosquitoes remain in water until they are adults. FourStar® larvicide is effective in the first three instars.

D. Altosid® larvicide stops pupa development while still leaving them in the food chain.

X Larvicides stop mosquito development beyond the pupa stage.
WHAT IS FOURSTAR® LARVICIDE?

FourStar® Larvicide is a unique microbial that ends mosquito larval development using the naturally occurring bacteria, *Bacillus sphaericus* (Bsph) and *Bacillus thuringiensis israelensis* (Bti). These active ingredients are inherent to soil and contain protein crystals that, when ingested, rupture the gut wall of the larvae causing larval death.
DESIGNED TO LAST

To enhance performance, FourStar® larvicides contain a patented “Dual Action” release technology. This innovative technology regulates the release of active ingredients to the water surface as well as throughout the water column to ensure a long residual and maximum coverage.

FourStar® products feature:
  • Positive environmental profile
  • The first microbial (Bsp/Bti) to offer extended residual
  • Optimized delivery of the active ingredient to target
# FOURSTAR® FORMULATIONS

<table>
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<th>FOURSTAR® FORMULATION</th>
<th>RESIDUAL</th>
<th>USES</th>
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<tr>
<td>180 DAY BRIQUETS</td>
<td>Up to 180 days</td>
<td>Use in standing water without the fear of harming aquatic life in areas frequented by humans, livestock and wildlife, storm drains, catch basins, underground drainage systems, storm water retention areas, ponds, and other potential mosquito breeding areas</td>
</tr>
<tr>
<td>90 DAY BRIQUETS</td>
<td>Up to 90 days</td>
<td>Use in standing water without the fear of harming aquatic life in areas frequented by humans, livestock and wildlife, storm drains, catch basins, underground drainage systems, storm water retention areas, ponds, and other potential mosquito breeding areas</td>
</tr>
<tr>
<td>45 DAY BRIQUETS</td>
<td>Up to 45 days</td>
<td>Use in standing water without the fear of harming aquatic life in areas frequented by humans, livestock and wildlife, storm drains, catch basins, underground drainage systems, storm water retention areas, ponds, and other potential mosquito breeding areas</td>
</tr>
<tr>
<td>SBG (SINGLE BROOD GRANULES)</td>
<td>7 to 14 day application interval</td>
<td>Flood water, standing water, roadside ditches, irrigation ditches, pastures, salt marshes, catch basins, storm drains and areas in contact with humans, wildlife and aquatic life</td>
</tr>
<tr>
<td>FOURSTAR® FORMULATION</td>
<td>RESIDUAL</td>
<td>USES</td>
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</tr>
<tr>
<td>MBG (MULTI-BROOD GRANULES)</td>
<td>Up to 30 days</td>
<td>Flood water, standing water, roadside ditches, irrigation ditches, pastures, salt marshes, catch basins, storm drains and areas in contact with humans, wildlife and aquatic life</td>
</tr>
<tr>
<td>CRG (CONTROLLED RELEASE GRANULES)</td>
<td>Up to 60 days</td>
<td>Pre-flooding application, standing water, roadside ditches, irrigation ditches, pastures, salt marshes, catch basins and storm drains</td>
</tr>
<tr>
<td>WSP (WATER SOLUBLE POUCHES)</td>
<td>Up to 60 days</td>
<td>Catch basins, storm drains, swimming pools, gutters, drains, ponds, lagoons, irrigation ditches and areas in contact with humans, wildlife and aquatic life</td>
</tr>
<tr>
<td>Bti-CRG (CONTROLLED RELEASE GRANULE)</td>
<td>Up to 40 days</td>
<td>Coastal areas, intermittent floodwater habitat, saltwater areas, sites with canopy vegetation and wet/dry accounts</td>
</tr>
</tbody>
</table>
FOURSTAR® BRIQUETS: CHOOSE YOUR RESIDUAL

Choose from three briquet sizes with control durations of 45, 90 and 180 days. They can be applied to standing water without fear of harming aquatic life as well as in areas frequented by humans, livestock and wildlife. Briquets may also be applied to potential mosquito breeding areas prior to flooding. Wetting and drying will not reduce their effectiveness.

FourStar® Briquet features:
• Proven microbial active ingredients
• 6-to-1 (6% BspH / 1% Bti) combination active ingredients
• Long-term residual control

FourStar® Briquet benefits:
• Environmental compatibility alleviates community concern
• Long residual reduces treatment frequency
• Savings on application labor cost
• Dual active ingredients help prevent resistance development

Application Rate:
To control mosquito larvae, place one briquet in sites to cover up to 100 square feet of surface area. When mosquito populations are high, water is heavily polluted, and/or algae are abundant, double the application rate to two briquets per 100 square feet.
FOURSTAR® CRG: WHEN TIMING IS EVERYTHING

FourStar® CRG is the first and only microbial granule to offer pre-flood application. That means it maintains effectiveness through wet and dry periods. A dual action controlled release technology in FourStar® CRG can kill larvae for up to 60 days and 4 floodings.

FourStar® CRG features:
- High density, spherical sand carrier
- 9-to-1 (9% Bsph / 1% Bti) combination active ingredients
- Dual action controlled release technology
- Bulk density of 51 lbs/ft³
- Up to 60 days control
- Effectiveness in intermittent flood areas
- Available in 35-lb poly bags

FourStar® CRG benefits:
- Can be applied to pre-flood areas
- Wet/dry effectiveness reduces applications
- Dual active ingredients help prevent resistance development
- Weight provides optimal vegetation penetration
- Less target drift
- Higher bulk density allows more coverage per application

Application Rate:
FourStar® CRG is approved for ground and aerial application at a minimum of 7.5 to 10 lbs/acre, up to 20 lbs/acre.
FOURSTAR® MBG: SAND WITH STAYING POWER

FourStar® MBG is a heavy, high-density and sand-based larvicide with Bsph and Bti dual active ingredients. The multi-brood granule (MBG) is most effective in semi-permanent or permanent water habitats, providing up to 4 weeks residual. A dual action release technology in FourStar® MBG produces results within the first 48 hours of application for effective kill of mosquito larvae.

FourStar® MBG features:
- High density, spherical sand carrier
- 3-to-3 (3% Bsph / 3% Bti) combination active ingredients
- Dual action flash release technology
- Bulk density at 65 lbs/ft³
- Up to 4 weeks residual
- Control of both floodwater species and Culex species
- Available in 40-lb poly bags

FourStar® MBG benefits:
- Covers wide range of mosquito species
- Heavier granule provides optimal vegetation penetration
- Long residual saves labor
- Dual active ingredients help prevent resistance development
- Granules are easy on equipment
- Expanded aerial application window
- Less target drift
- Higher bulk density allows more coverage per application

Application Rate:
FourStar® MBG is approved for ground and aerial application at a minimum of 5 to 10 lbs/acre, up to 20 lbs/acre.
FOURSTAR® SBG: HEAVY ON CONTROL

FourStar® SBG is a heavy, high-density sand with Bti as the active ingredient. The single brood granule (SBG) is very effective at penetrating thick vegetation with minimal drift. Plus, FourStar® SBG is Organic Materials Review Institute (OMRI) listed, which means it is approved for application on and near organic crops.

FourStar® SBG features:
- A proven microbial active ingredient
- A high-density, uniformly spherical design
- Reduced bulk heavy sand
- OMRI listed
- 2.15% Bti sand granule

FourStar® SBG benefits:
- Improved vegetation penetration
- Wider application swath
- Less target drift
- OMRI listed to alleviate community concern
- Higher bulk density allows more coverage per application

Application Rate:
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 3rd and early 4th instar larvae predominate, larval populations are high, water is heavily polluted and/or algae growth is abundant.
FOURSTAR® WSP: FOCUSED CONTROL

FourStar® WSP is designed for applications in semi-permanent or permanent water sites such as catch basins, sewers and other urban water run-off areas. The multi-brood granules in each dissolving FourStar® water soluble packet (WSP) offer effective kill of mosquito larvae and can last for up to 8 weeks.

FourStar® WSP features:
- 10 grams of multi-brood granules in each pouch
- 3-to-3 (3% BspH / 3% Bti) combination active ingredients
- Dual action flash release technology
- Up to 8 weeks residual
- 400 10-gram pouches per case

FourStar® WSP benefits:
- Dual active ingredients help prevent resistance development
- The small pouch fits in tight areas
- Easy to apply

Application Rate:
1 pouch per 50 ft². For larger sites apply 1 additional pouch per 50 ft². FourStar® WSP application rate is equivalent to 20 lbs / acre.
FOURSTAR® Bti-CRG

FourStar® Bti-CRG is a heavy, high-density and sand-based larvicide designed for saltwater habitats with vegetative canopy. A dual action controlled release technology allows FourStar® Bti-CRG to remain effective through wet and dry periods. It can kill larvae for up to 40 days and 4 floodings.

FourStar® Bti-CRG features:

• High density, spherical silica sand carrier
• 10% Bti active ingredient
• Dual action controlled release technology
• Up to 40 days residual
• Effective in intermittent flood areas
• Available in 35-lb poly bags

FourStar® Bti-CRG benefits:

• Can be applied to pre-flood areas
• Wet/dry effectiveness reduces applications
• Controls Aedes taeniorhynchus
• Weight provides optimal vegetation penetration
• Less target drift
• Higher bulk density allows more coverage per application

Application Rate:
FourStar® Bti-CRG is approved for ground and general aerial application at a minimum 7.5 to 10 lbs/acre, up to 20 lbs/acre.
**SPECIMEN LABEL**

**Sustained Release 45 Day Microbial Briquets**

**ACTIVE INGREDIENTS:**

- *Bacillus sphaericus* 2362, Serotype H5a5b, Strain AML614 .................................. 6.00%
  fermentation solids, spores and insecticidal toxins
- *Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 .......................... 1.00%
  fermentation solids, spores and insecticidal toxins

**OTHER INGREDIENTS:** .......................................................... 93.00%

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

* Equivalent to *60 Bs ITU/mg and **70 ITU/mg respectively. 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 – CAUTION:**

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, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS:**

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

**FIRST AID**

**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 poison control center or doctor for treatment advice.

**If on skin or clothing**
- 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**
- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 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.

**APPLICATION DIRECTIONS**

FourStar® Briquets are a highly selective microbial insecticide effective against mosquitoes in a variety of habitats for up to 180 days or more. FourStar® Briquets release effective levels of *Bacillus sphaericus* and *Bacillus thuringiensis* subspecies *israelensis* to the water surface over time as the briquet dissolves.

**APPLICATION SITES**

FourStar® Briquets 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 ponds, abandoned swimming pools, ornamental fountains and ponds, fish ponds, water gardens, animal drinking troughs, standing water, water holding receptacles, man-made and natural sites where mosquitoes may develop.

**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:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill empty carton or packaging material. Offer for recycling if available 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**

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.

Always read the label before using this product.

For product information, call 1-800-248-7763 or visit our web site:

www.fourstarmicrobials.com
FourStar® Briquets

Sustained Release 90 Day Microbial Briquets

ACTIVE INGREDIENTS:
* Bacillus sphaericus 2362, Serotype H5a5b, Strain AML614 ....................... 6.00%
fermentation solids, spores and insecticidal toxins
** Bacillus thuringiensis subspecies israelensis Strain BMP 144 .................. 1.00%
fermentation solids, spores and insecticidal toxins
OTHER INGREDIENTS: ........................................................................................ 93.00%
TOTAL: ................................................................................................................................. 100.00%

* Equivalent to *60 Bs ITU/mg and **70 ITU/mg respectively. 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 – CAUTION:
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, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

DIRECTIONS FOR USE
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APPLICATION DIRECTIONS
FourStar® Briquets are a highly selective microbial insecticide effective against mosquitoes in a variety of habitats for up to 180 days or more. FourStar® Briquets release effective levels of Bacillus sphaericus and Bacillus thuringiensis subspecies israelensis to the water surface over time as the briquet dissolves.

APPLICATION SITES
FourStar® Briquets 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 ponds, abandoned swimming pools, ornamental fountains and ponds, fish ponds, water gardens, animal drinking troughs, standing water, water holding receptacles, man-made and natural sites where mosquitoes may develop.

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: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill empty carton or packaging material. Offer for recycling if available 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.

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Always read the label before using this product.
For product information, call 1-800-248-7763 or visit our web site: www.fourstarmicrobials.com

EPA Reg. No. 83362-3 | EPA Est. No. 86884-OR-1
©2013 FourStar | U.S. Patent No. 7837988

Manufactured for: B2E Microbials LLC
DBA FourStar Microbials LLC
1581 East Woodfield Road, #200W
Schaumburg, Illinois, 60173 U.S.A.

FourStar and the FourStar design are trademarks of B2E Microbials LLC | Made in USA
Sustained Release 180 Day Microbial Briquets

ACTIVE INGREDIENTS:
* Bacillus sphaericus 2362, Serotype H5a5h, Strain AML614 ........................ 6.00%
fermentation solids, spores and insecticidal toxins
** Bacillus thuringiensis subspecies israelensis Strain BMP 144 ..................... 1.00%
fermentation solids, spores and insecticidal toxins

OTHER INGREDIENTS: .......................................................................................... 93.00%
TOTAL: .................................................................................................................. 100.00%
* Equivalent to *60 Bs ITU/mg and **70 ITU/mg respectively. The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

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

APPLICATION DIRECTIONS
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FourStar® Briquets 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 ponds, abandoned swimming pools, ornamental fountains and ponds, fish ponds, water gardens, animal drinking troughs, standing water, water holding receptacles, man-made and natural sites where mosquitoes may develop.

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Manufactured for: B2E Microbials LLC
DBA FourStar Microbials LLC
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Schaumburg, Illinois. 60173 U.S.A.

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EPA Reg. No. 83362-3 | EPA Est. No. 88884-OR-1
©2013 FourStar  |  U.S. Patent No. 7837988
ACTIVE INGREDIENTS:

*Bacillus sphaericus* Serotype H5a5b, strain 2362 solids, AML SPH 88* .......................................................... 9.0%

*Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 solids, spores and insecticidal toxins* ........................................... 1.0%

OTHER INGREDIENTS: .......................................................... 90.0%

TOTAL: ............................................................................. 100.0%

* Equivalent to 90 Bs ITU/mg and 70 Bti ITU/mg respectively.

Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

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**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 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 CRG* is a highly selective multi-brood microbial insecticide granule effective against mosquito larvae in a variety of aquatic habitats for up to 60 days. *FourStar CRG* releases effective levels of *Bacillus sphaericus* and *Bacillus thuringiensis* subspecies *israelensis* to the water surface and throughout the water column over time.

*FourStar 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 CRG* prevents adult mosquito emergence for up to four subsequent floodings or up to 60 days. 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 60 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.

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**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

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.

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, and then continue rinsing eyes.
• Call a poison control center or doctor for treatment advice.

If on skin

• 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.

**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 1-800-248-7763 for emergency medical treatment information.
Mosquito species effectively controlled by FourStar CRG.

- Aedes vexans
- Anopheles quadrimaculatus
- Coquillettidia perturbans
- Culex spp.
- Ochlerotatus melaninom (Aedes melaninom)
- Ochlerotatus nigromaculis (Aedes nigromaculis)
- Ochlerotatus sollicitans (Aedes sollicitans)
- Ochlerotatus stimulans (Aedes stimulans)
- Ochlerotatus triseriatus (Aedes triseriatus)
- Psorophora columbiae
- Psorophora ferox

APPLICATION SITES

Apply FourStar CRG pre-hatch or post-hatch as directed above to temporary and permanent water sites which support mosquito larval development. FourStar 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: freshwater marshes, cattail marshes, woodland pools and meadows, grassy swales, floodplains, flood water, standing water, roadside ditches, canals, catch basins, storm drains, storm water collection areas and impoundments, lakes and ponds, abandoned swimming pools, ornamental fountains and ponds, water gardens, 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 CRG per acre. Use 10 to 20 lbs of FourStar 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.

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 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.
ACTIVE INGREDIENTS:

- Bacillus sphaericus 2362, Serotype H5aSb, strain AML614* ........................................... 3.0%
- Bacillus thuringiensis subspecies israelensis Strain BMP 144 solids, spores and insecticidal toxins* ........................................................................................................ 3.0%
- Other Ingredients: ........................................................................................................ 94.0%

TOTAL: ................................................................................................................................................... 100.0%

*Equivalent to 30 Bt IU/mg and 210 Bti IU/mg respectively. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

ACTIVE INGREDIENTS:

- Bacillus sphaericus 2362, Serotype H5aSb, strain AML614* ........................................... 3.0%
- Bacillus thuringiensis subspecies israelensis Strain BMP 144 solids, spores and insecticidal toxins* ........................................................................................................ 3.0%
- Other Ingredients: ........................................................................................................ 94.0%

TOTAL: ................................................................................................................................................... 100.0%

*Equivalent to 30 Bt IU/mg and 210 Bti IU/mg respectively. 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 – 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 must wear a dust / mist filtering respirator meeting NIOSH standards of at least R-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 or 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® MBG is a highly selective multi-brood microbial insecticide effective against mosquito larvae in a variety of aquatic habitats for up to 4 weeks. FourStar MBG releases effective levels of Bacillus sphaericus and Bacillus thuringiensis subspecies israelensis to the water surface and throughout the water column. Apply uniformly according to rates listed below by aerial or conventional ground equipment. Reapply after 1 to 4 weeks under typical environmental conditions. More frequent applications may be made if monitoring indicates larval populations have reestablished or weather conditions have rendered initial treatments ineffective.

APPLICATION SITES

FourStar MBG 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:

- Natural and manmade aquatic sites such as lakes, ponds, canals, rivers and streams (including rier & stream edges), floodplains, swamps, marshes, irrigation ditches, flood water, woodland pools, snow melt ponds, livestock watering ponds and troughs, tidal water, salt marches, mangroves, estuaries, drainage ditches, roadside ditches, retention, detention, and seepage ponds, sewage effluent, sewage lagoons, oxidation ponds, septic ponds, animal waste lagoons, impounded wastewater associated with fruit and vegetable processing, rice fields, pastures/hay fields, orchards (including citrus groves, peaches, almonds, dates, walnuts), asparagus fields, corn fields, cotton fields, alfalfa fields, vineyards.
- Any location where water accumulates and remains standing for periods of time, except treated, finished drinking water for human consumption.
- 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 larva, apply 5 to 10 lbs of FourStar MBG per acre. Use 10 to 20 lbs 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.

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 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 this label.

To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with label instructions.
ACTIVE INGREDIENT:
*Bacillus thuringiensis* subspecies *israelensis* Strain BMP 144 solids, .......................... 2.15%
spores and insecticidal toxins
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**

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

**FIRST AID**

If on skin

- 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 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.

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or going to treatment. You may also contact 1-800-248-7763 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.

**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, marshes, 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 3rd and early 4th 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, 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.

Always read the label before using this product. For product information, call 1-800-248-7763 or visit our web site: www.fourstarmicrobials.com

Fourstar Microbial Products LLC, Schaumburg, Illinois, 60173, U.S.A.

EPA Reg. No. 85658-1 | EPA Est. No. 85884-OR-1

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3D0514113
Water Soluble Pouch

ACTIVE INGREDIENTS:
Bacillus sphaericus 2362, Serotype H5G6b, strain AML614* ........................................ 3.0%
Bacillus thuringiensis subspecies israelensis Strain BMP 144 solids, spores and insecticidal toxins* ........................................................................................................... 3.0%
OTHER INGREDIENTS: ...................................................................................................................... 94.0%
TOTAL: .............................................................................................................................................. 100.0%

*Equivalent to 30Bs ITU/mg and 210Bti ITU/mg respectively. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

APPLICATION DIRECTIONS
FourStar® WSP is a highly selective multi-brood microbial insecticide effective against mosquito larvae in a variety of aquatic habitats for up to 8 weeks. FourStar WSP releases effective levels of Bacillus sphaericus and Bacillus thuringiensis subspecies israelensis to the water surface and throughout the water column.

Apply uniformly according to rates listed below by hand. Reapply after 1 to 8 weeks 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
FourStar WSP can be applied to all field mosquito development sites 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:
- Natural and man-made aquatic sites such as catch basins and storm drains, abandoned swimming pools, unused swimming pools or spas, flooded basements, pool covers, gutters and drains, wheelbarrows, garbage cans and covers, discarded tires, ponds, lagoons, hollow trees and tree holes, urns, rain barrels, livestock watering troughs/ponds/tanks, irrigation ditches, roadside ditches, water gardens, impounded wastewater associated with fruit and vegetable processing, retention, detention and seepage ponds, animal waste lagoons, flood water, standing water, storm water retention areas, bird baths, fountains, flowerpots and planters, snow melt pools, septic tanks.
- Any location where water accumulates and remains standing for periods of time, except treated, finished drinking water for human consumption.

APPLICATION RATES
Apply on basis of surface area of potential mosquito breeding sites by placing one (1) FourStar WSP for up to 50 square feet of treatment area. For larger sites, apply 1 additional pouch for each additional 50 square feet of surface area. In areas where late instar larvae predominate, larval populations are high or under conditions where local experience indicates the need for higher rates to achieve extended residual control, double the application rate.

FIRST AID
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, and then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

If on skin
- 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.

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 1-800-248-7763 for emergency medical treatment information.

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.

Always read the label before using this product. For product information, call 1-800-248-7763 or visit our web site: www.fourstarmicrobials.com
ACTIVE INGREDIENTS:
Bacillus thuringiensis subspecies israelensis Strain BMP 144 solids, spores and insecticidal toxins* ................................................. 10%
OTHER INGREDIENTS: ..................................................................... 90%
TOTAL: .......................................................................................... 100%

* 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.

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.

FIRST AID
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 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, and then continue rinsing eyes.
- Call poison control center or doctor for treatment advice.

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

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.

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.
Wellmark International makes no representations or warranties, expressed or implied, with respect to the completeness or accuracy of the specimen labels or information contained herein. These specimen labels are provided for general information purposes only. The information on these specimen labels may vary from the actual information, including precautions and instructions for use, on the applicable EPA/state accepted FIFRA pesticide label(s) for the specific pesticide product you intend to use. It is the responsibility of all persons using a pesticide product to read and follow the applicable FIFRA label and to comply with all federal, state, and local laws and regulations relating to the use of such pesticide product. Before using any pesticide product, be sure it is registered for use in your state and locality.

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For the most current information, including Material Safety Data Sheets, please refer to www.CentralMosquitoControl.com.

To learn more about FourStar® products, call 800.248.7763 or visit www.CentralMosquitoControl.com.