



Aquaprene™ - The next generation in S-Methoprene formulations

Robert D. Sjogren, David R. Sjogren
B2E Biotech LLC

Introduction

- A new line of S-Methoprene products called Aquaprene™ provides operational advantages which will improve mosquito control.
- All Aquaprene products use new SmartDose™ controlled release technology for extended control.
- All Aquaprene products can be applied pre-hatch weeks before irrigation or rainfall triggered brood development.

Aquaprene Formulations



- Wettable Powder (WP)
- Tossits
- Granules
- XL Granules
- Briquets
- XL Briquets
- Catch Basin Briquets
- XL Catch Basin Briquets

Aquaprene Wettable Powder (WP)



- WP allows liquid pre-hatch application, an industry first
- Apply in water on dry sites up to 14 days prior to flooding
- Apply post-hatch up to early 4th instar
- WP typically controls one to two broods
- Each WSP pouch controls 5 acres
- WP can be used to make sand granules and applied pre-hatch

Aquaprene Tossits™



- Tossits control 5,445 sq. ft. areas (1/8/ acre) even in dense vegetation
- Time consuming swath applications are not necessary
- Simply throw one Tossit for each 1/8 acre anywhere within the site
- Tossits can be applied to dry sites up to 21 days prior to flooding (pre-hatch)
- Tossits can be applied post-hatch on all larval stages (up to early 4ths)
- Tossits control one to two broods
- Tossits are a revolutionary new labor saving tool

Aquaprene Granules



- Aquaprene Granules were developed to provide a mosquito control programs with a single brood granule which can be applied pre-flood (pre-hatch)
- Features a uniform, high density sand core for improved calibration and vegetation penetration
- Expands treatment window from pre-hatch up to early 4th instar
- Aquaprene Granules typically control one to two broods
- Cost competitive alternative to Bti granules for floodwater mosquitoes

Aquaprene XL Granules



- Aquaprene XL Granules provide a clean, cost competitive alternative to pellets
- XL Granules are made using uniform sand particles for improved calibration and application accuracy
- Virtual dust free formulation
- Apply pre or post-hatch
- XL Granules provide up to 40 days of control

Aquaprene Briquets



- Briquet formula and shape is designed for general use (can be used in catch basins)
- Small Briquet provides a 45 day residual
- Large XL Briquet provides up to 170 day residual
- Briquets are formulated to be clean to touch – no more charcoal residue when handling

Aquaprene Catch Basin Briquets



- Catch Basin Briquet formula and shape is designed specifically for catch basins
- Labeled specifically for catch basins and other urban sites.
- Small Catch Basin Briquet provides a 45 day residual
- Large XL Catch Basin Briquet provides up to 170 day residual
- Briquets have maximum mass for long lasting control, yet will slip through catch basin grates
- Briquets are formulated to be clean to touch – no more charcoal residue when handling

Conclusion

- 10 year project...
- 5 years in S-Methoprene technical development and EPA registration
- Another 5 years in Aquaprene formulation development and EPA registration
- Massive amount of non-target and efficacy data has been developed to register Aquaprene
- B2E is committed to providing quality, innovative products to the mosquito control market
- Aquaprene is available directly from B2E, shipping this April