



Sumilarv® 0.5G

Proactive Mosquito Control: Managing Catch Basin Populations with Sumilarv®

Urban environments, especially those with storm drain systems, create ideal breeding grounds for mosquitoes that transmit dangerous diseases like West Nile virus and dengue. Traditional adulticide treatments alone are not enough to address the problem at its source. Find out how MGK's mosquito larvicide, Sumilarv, offers a distinct mode of action, providing a long-lasting, proactive solution for mosquito control in catch basins, enhancing your integrated mosquito management strategy.

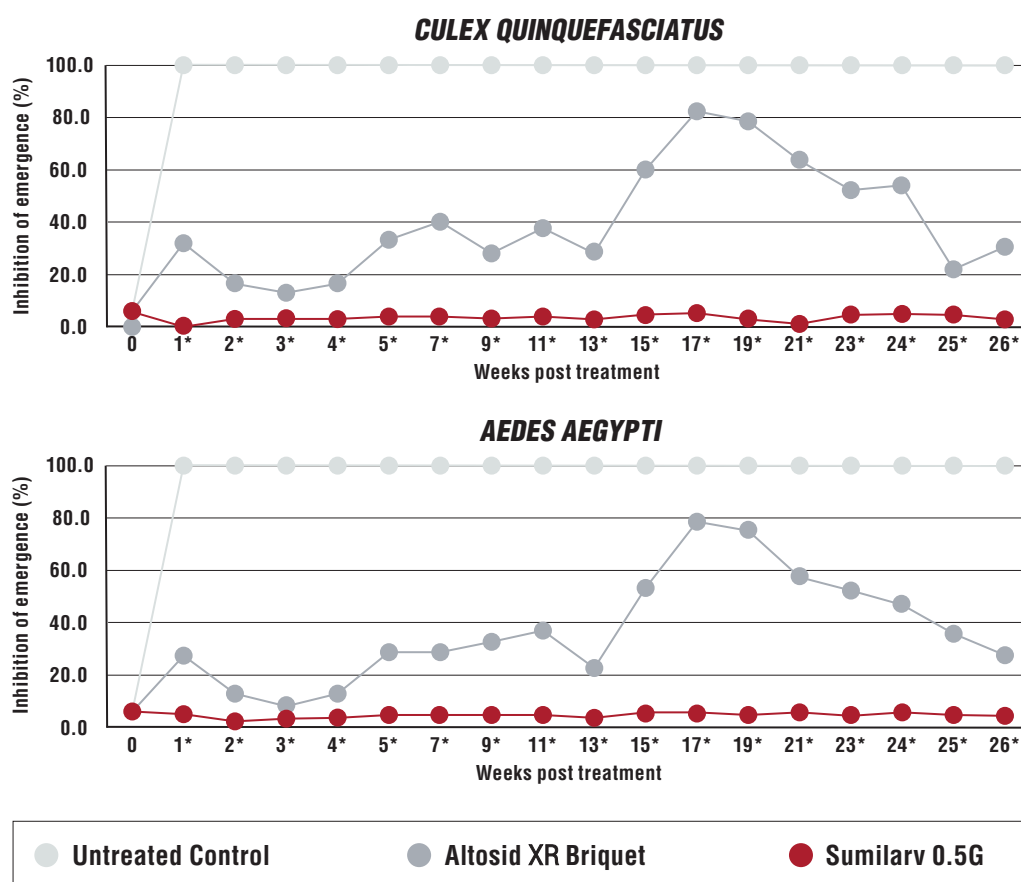
Targeting Mosquitoes at the Source: Long-Lasting Larvicide Solutions for Urban Areas

Storm drain systems provide optimal conditions for the development of many types of mosquito populations. Treating these breeding grounds can present unique challenges such as treatment flushing due to flooding and the buildup of organic content, rendering many treatments ineffective. Sumilarv was designed to mitigate these issues and has demonstrated efficacy in environments of varying organic content and heavy flushing, as well as dry and rewet scenarios.

The Power of Pyriproxyfen on *Culex quinquefasciatus* and *Aedes aegypti*

MGK's Sumilarv 0.5 products provide control of mosquitoes by using a blend of pyriproxyfen and a special substrate to maintain efficacy for up to 150 days (3 WSP, 75g application) when added to catch basins. Pyriproxyfen, the active ingredient in Sumilarv, limits the development of resistance due to its ability to control mosquito populations at incredibly low levels.

FIG 1. THE INHIBITION OF EMERGENCE OF *CULEX QUINQUEFASCIATUS* AND *AEDES AEGYPTI*



The distinct mode of action of Sumilarv allows it to be effective throughout the season even when other products may decline. Over the course of a 26-week study, Sumilarv 0.5G significantly outperformed Altosid® XR briquet on both species, resulting in 100% inhibition emergence.

With long residual activity and a non-flushing formula, Sumilarv can help reduce reapplication needs even following precipitation. While the mode of action of pyriproxyfen does not kill mosquito larvae directly, it will impact the larvae as they progress through the pupal stage, preventing emergence as fully formed adults. Keep in mind with this mode of action, the presence of live larvae in a treated water source is not an indication of a failed application.

Sumilarv Benefits Mosquito Control in Catch Basins

The use of Sumilarv can play a major role in the development of an effective vector control strategy. Pyriproxyfen provides an effective method of control and serves as an excellent rotational option to avoid the development of insecticide resistance.

MGK recommends using Sumilarv 0.5G (granules or WSP) in standing water areas where mosquitoes are emerging. In these situations, applying 75g of the product has been proven to provide 150 days of control. The non-flushing, long-lasting performance of this product makes it an ideal option for mosquito control in urban settings.

Citations:

Tianyun Su, Comparative Activity and Efficacy of Sumilarv 0.5G and Altosid XR Briquet Against Culex Quinquefasciatus and Aedes Aegypti in Simulated Catch Basins, Journal of the American Mosquito Control Association. 2023; 39(3):173-182. <https://doi.org/10.2987/23-7134>

When applying insecticides, always follow the rates, instructions and proper PPE as directed on the product label.