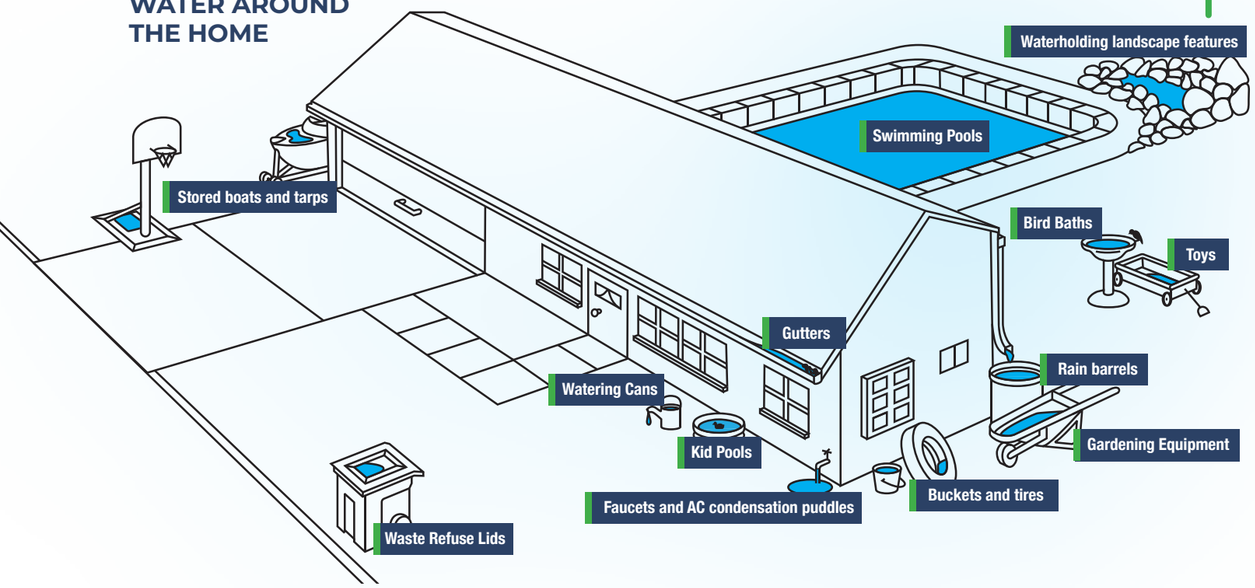
APPLICATION OF ALTOSID® LIQUID SR-20 AND SR-5

Altosid® Liquid SR-20, a concentrate containing 20 percent of the active (S)-methoprene, and Altosid® Liquid SR-5, containing 5 percent, are EPA-approved for aerial and ground applications, both ULV and diluted spray, for locations that require large-area coverage.

For application of Altosid® Liquid SR-20 to terrestrial sites, apply at the rate of ¾ to 1 fl oz of product per acre to water-holding containers and other small bodies of water that breed mosquitoes such as urban terrestrial sites, pastures, fields, freshwater swamps and marshes, woodland pools and meadows, drainage areas, ditches and other natural and man-made depressions. Apply Altosid® Liquid SR-5 to the same sites at a rate of 3 to 4 fl oz of product per acre.

AREAS OF STANDING WATER AROUND THE HOME



ALTOSID® LIQUID LARVICIDES

A CLEAN APPLICATION THAT CONTROLS MOSQUITO POPULATIONS WITH DISEASE-CARRYING IMPLICATIONS

Altosid® Liquid Larvicides are microencapsulated liquid larvicides containing the active ingredient (S)-methoprene. They were created after extensive research into the intricacies of natural biochemical and physiological development of insects. As unique mosquito larvicides, Altosid® Liquid Larvicides' mode of action prevents adult mosquito emergence from standing water, including those which might transmit Zika virus, West Nile virus, Chikungunya and Dengue fever.

CENTRAL Life Sciences®

To learn more about the Altosid® product family from Central Life Sciences, visit **CentralMosquitoControl.com** or call 1-800-248-7763

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Altosid®

CONTROLLING MOSQUITOES WITH THE ORIGINAL IGR

(S)-Methoprene is an insect growth regulator, or more precisely, a juvenile hormone analogue that was EPA registered in the U.S. in 1975. Activated by normal biochemical pathways, (S)-methoprene controls mosquitoes through interfering with normal levels within the insect at critical development periods. It essentially kills mosquitoes at pupation by preventing growth and/or maturation.

Altosid® Liquid Larvicides, unlike conventional pesticides and larvicides, do not produce the nondiscriminatory rapid, directly toxic effects. They differ in the manner and timing of action after application. Altosid® Liquid Larvicides act by disrupting metamorphosis, preventing the emergence of adult mosquitoes from pupae.

Altosid® Liquid Larvicides are applied to second, third or fourth instar larvae using standard larviciding equipment. After application at the labeled rates, no visible effect on larvae will be observed. They will continue developing normally and will pupate. Pupae may appear unaffected, but will eventually die and adults will not emerge. Infrequently, some adults may be seen at the water surface but they will have abnormalities preventing flight and will not survive.

FEATURES:

- The active ingredient (S)-methoprene, a target specific molecule that will not affect humans, fish, waterfowl, mammals or beneficial predatory insects
- A short halflife in soil and water
- A water-dilutable formulation for a clean, easy application. Microencapsulation that provides both protection of the active ingredient and a time release mechanism for extended control
- Effectiveness independent of population density, salinity and other factors that influence mosquito feeding behavior
- Absorption through the cuticle or ingested, which means the larvae cannot escape treatment
- An excellent toxicity profile – one of the lowest in the mosquito control industry
- Aerial application of the Altosid® Liquid SR-20 or SR-5 formulations are effective for use in urban terrestrial sites, pastures, rice, crops, intermittently flooded non-crop areas and other sites, and is appropriate for large-area applications

BENEFITS:

- Consistent results in all population densities
- Cost-effective solution for large-area applications
- No impact on food web
- Superior formulations for temporary or floodwater mosquito breeding areas
- Effectively prevents the emergence of adult mosquitoes that can transmit Zika virus, West Nile virus, Chikungunya and Dengue fever
- Control of many mosquito larvae species
- Easy mixing and stays in solution with mild agitation
- A clean product application that does not leave film

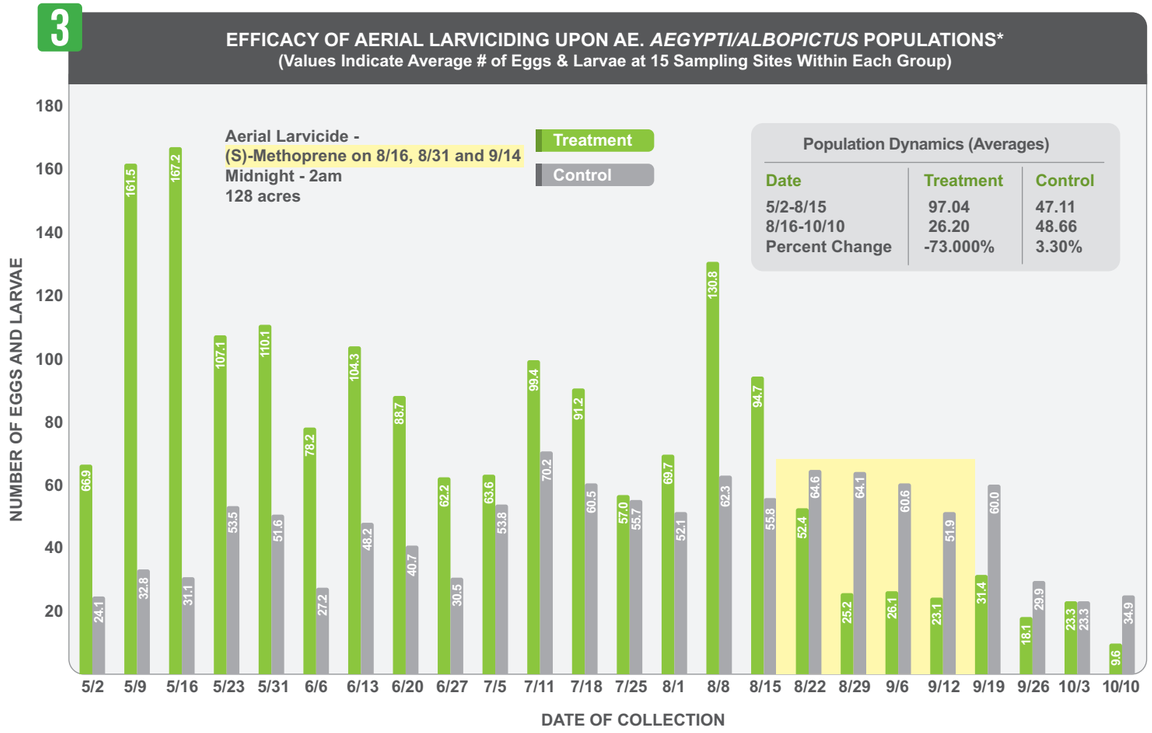
FIELD TEST OF ALTOSID® LIQUID SR-20 AND SR-5

1 Altosid® Liquid Larvicides were successfully used and tested in area-wide treatments during Dengue fever outbreaks in Martin County, FL. In conjunction with integrated mosquito management, the applications reduced the number of properties breeding mosquitoes from 30 percent to zero percent.

2 Operational screenings with Altosid® Liquid Larvicides in two study sites with a history of high domestic (Ae. *aegypti* and *albopictus*) mosquito populations near Bradenton, FL. Manatee County achieved 98 percent control of larvae in backyard containers.

3

EFFICACY OF AERIAL LARVICIDING UPON AE. *AEGYPTI/ALBOPICTUS* POPULATIONS*
(Values Indicate Average # of Eggs & Larvae at 15 Sampling Sites Within Each Group)



*Data generated in Manatee County, Florida