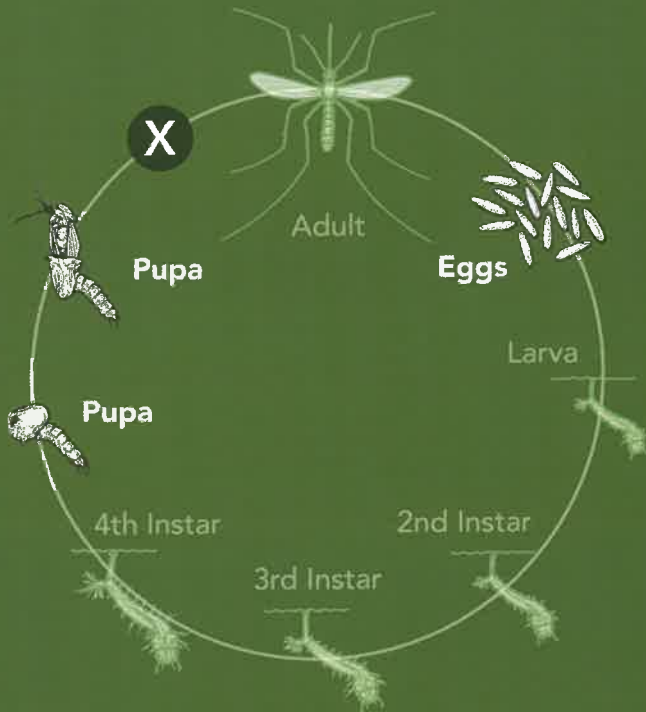


ALTOSID® LARVICIDE

Altosid® larvicide targets and kills mosquitoes in the later stages of their development in water. All Altosid® formulations contain the insect growth regulator (S)-methoprene, which disrupts the normal growth pattern of immature mosquitoes and prevents them from becoming breeding, biting adults that can spread disease.



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

The effectiveness of Altosid® larvicides can first be seen during the pupal stage. In fact, Altosid® larvicide treated mosquitoes die at this stage.

X Altosid® larvicides stop mosquito development beyond the pupal stage.



MOSQUITO BREEDING GROUNDS

Floodwater mosquitoes lay their eggs on moist soil. These eggs hatch after the soil is flooded but can remain dormant in dry soil for weeks or months.

Permanent water mosquitoes lay their eggs on water surfaces in marshes, ponds, catch basins, open containers and tree holes. These eggs usually hatch in one to three days.

Early Prevention: Altosid® larvicides help you proactively reduce future mosquito populations through proactive prevention. They work in water and affect mosquito larvae on contact or through ingestion, reducing the threat of future adult mosquito populations. Altosid® larvicides exploit biological, physiological and ecological characteristics unique to the mosquito. They are target specific, easy on the environment, effective and economical – ideal for early prevention of mosquitoes.

ALTOSID® FORMULATIONS

No two mosquito habitats are alike. That's why Altosid® larvicides are available in multiple formulations to control mosquitoes in their ideal breeding ground: standing water.

ALTOSID® FORMULATION	RESIDUALS	USES
BRIQUETS	Up to 30 days	Catch basins, storm drains, woodland ponds, fountains, retention pools and roadside ditches
	Up to 150 days	Can be hand-applied on foot or from moving vehicles
ALTOSID® XR-G GRANULES	Up to 21 days	Perfect for aerial applications in standing water over large tracts of land, ponds and lakes needing canopy penetration
ALTOSID SBG® II SINGLE BROOD GRANULES	5-7 days	
PELLETS	Up to 30 days	Hard-to-treat sites in submerged conditions such as marshes, abandoned tires, ditches and artificial water-holding containers
WATER SOLUBLE POUCH	Up to 30 days	Targeted delivery with ready-to-use pouch for storm drains, flooded crypts, transformer pits, ditches and other natural or artificial water-holding containers
LIQUID	Up to 7 days	Temporary or floodwater mosquito breeding areas

Altosid® products are environmentally sound and have an excellent toxicity profile. Altosid® larvicides naturally degrade in the environment and will not adversely affect humans, fish, waterfowl, mammals or beneficial insects. So, you can feel comfortable using them in sensitive areas.

ALTOSID® FORMULATIONS

ALTOSID® BRIQUETS

Catch basins, ponds, roadside ditches and surface water receptacles are all locations where ongoing maintenance is necessary but often impractical. Altosid® Briquets require no expensive application equipment and can be used for pretreatment before the wet season. That means you're better able to treat hard-to-access or out-lying areas and can eliminate the additional costs associated with travel and multiple re-treatments. Additionally, Altosid® Briquets are available in multiple shapes, including "slim ingot." This shape allows for applications in virtually any storm drain or sewer without needing to lift the grate.



Altosid® Briquets Feature:

- Slow release control for up to 30 days
- Active ingredient (S)-methoprene
- Hand application by operators on foot or in moving vehicles

Altosid® XR Extended Residual Briquets Feature:

- Slow release control for up to 150 days
- "Slim ingot" shape for applications in narrow spaces (3" L x 0.75" H x 1.125" W)
- Extended shelf life
- Easy to use

ALTOSID® GRANULES

Get cost-effective larvicide coverage over a large area with Altosid® granules. The small size of Altosid® granules provides more dispersion over target areas. Ideal for large aerial applications, these granules weigh more in order to reduce drift and penetrate vegetative canopy. Altosid® granules come in two formulations, one of which is available in a new, convenient 10-oz. bottle that can be given to homeowners for easy application on their property.



Altosid XR-G® Feature:

- Active ingredient (S)-methoprene
- Extended residual control to prevent the emergence of adult mosquitoes, including those that may carry vector-borne diseases, such as West Nile virus, Zika virus, Chikungunya and Dengue
- Effective on multiple broods
- Application rates of 5 to 20 lbs per acre

Altosid SBG® II Single Brood Granules Feature:

- 50% more (S)-methoprene than the original SBG
- Silica based granule for enhanced point source coverage
- Consistent granule for improved application flexibility
- DR-tech for virtually dust-free applications
- Application rates of 3 to 20 lbs per acre

ALTOSID® PELLETS

Altosid® Pellets offer an application option for nearly all use patterns. They are ideal for tough-to-treat sites like rice fields, cattail marshes, stacks of abandoned tires and other man made habitats. Altosid® Pellets can also be used in pre-flood or in intermittently flooded areas. They can be applied up to 15 days before flooding or at any stage of larval development.



Altosid® Pellets with DR-tech Features:

- Active ingredient (S)-methoprene
- Now includes DR-tech
- Up to 30 days of submerged residual activity
- Apply up to 15 days pre-flood
- Application rates of 2.5 to 10 lbs per acre

Altosid® WSP Pellets Features:

- Ready-to-use water soluble pouches
- Releases effective levels of (S)-methoprene for up to 30 days
- Treatment for hard-to-reach stormwater sites
- Single pouch coverage of 135 ft² of water surface area

ALTOSID® LIQUID

Altosid® Liquid Larvicide Mosquito Growth Regulator (SR-5)

Altosid® Liquid Larvicide Concentrate (SR-20)

A liquid larvicide is an effective and flexible formulation fitting for any mosquito control program. Altosid® Liquid Larvicide Mosquito Growth Regulator (SR-5) and Altosid® Liquid Larvicide Concentrate (SR-20) meet that description – and provide exceptional performance. Both formulations offer superior control in a wide range of habitats and application areas, including temporary or floodwater breeding areas and irrigated cropland. Approved for aerial and ground ULV treatments, Altosid® liquids prevent the emergence of adult mosquitoes, including those which may transmit vector-borne diseases, such as West Nile virus, Zika virus, Chikungunya and Dengue.



These formulations can be used on-site to make Altosand® granular formulations. By mixing dry sand and Altosid® liquids, you can achieve excellent foliage penetration in floodwater mosquito breeding areas with dense vegetation or canopy.

ALTOSID® P35



Utilizing the active ingredient (S)-methoprene, Altosid® P35 is our latest innovation that combines the original IGR with a unique, granule design to provide continuous residual control for 35 days. This allows for pre-flooding application and lasts during wet environments. And its smooth, uniform spherical design allows for easy, accurate application and equipment calibration.

Altosid® P35 Features:

- Smooth granule matrix form
- Uniform spherical design
- Matrix formula containing dual-encapsulation to provide short- and long-term release of the IGR
- Extended release technology
- (S)-Methoprene quick release technology

THE BENEFITS OF ALTOSID® LARVICIDES

ALTOSID® LARVICIDES	
✓	Kills most mosquito pest species
✓	Consistent results in all population densities
✓	No impact on food web
✓	Multiple formulations to meet application and economic requirements
✓	Labeled residual claim
✓	Labor savings with extended residual
✓	Pretreatment capabilities
✓	Consistent results in wet-/dry-down and flood/reflood conditions
✓	Excellent canopy penetration
✓	Microencapsulated liquid (provides residual control)

Based on current product specimen labels; see pages 13-32.

EXTENDED CONTROL COMPARISON

One application of Altosid® XR Briquets containing (S)-methoprene can control mosquito larvae for an entire season.

PRODUCT	TYPE OF PRODUCT	APPLICATION INTERVALS/RESIDUAL	
		Continually flooded sites	Intermittently flooded sites
ALTOSID® BRIQUETS	IGR (S)-methoprene	Up to 30 days	Up to 30 days
ALTOSID® XR BRIQUETS	IGR (S)-methoprene	Up to 150 days	Up to 150 days
ALTOSID XR-G® GRANULES	IGR (S)-methoprene	21 days	21 days
ALTOSID SBG® II GRANULES	IGR (S)-methoprene	5-7 days	5-7 days
ALTOSID® PELLETS	IGR (S)-methoprene	30 days	30 days

Based on current product specimen labels; see pages 13-32.

COMPARATIVE ACUTE ORAL TOXICITIES

An LD50 is a measure of toxicity. The longer the LD50 bar, the lower the toxicity. Compared to other leading mosquito control products, (S)-methoprene, the active ingredient in Altosid® products, and Etofenprox, the active ingredient in Zenivex® products, are two of the least toxic.

