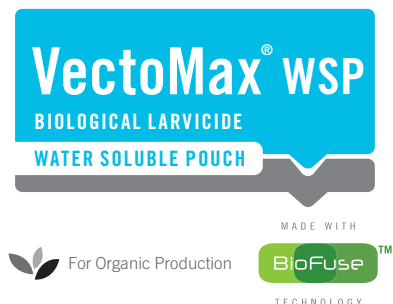


## TECHNICAL USE SHEET

# VectoMax<sup>®</sup> WSP

Biological Larvicide



VectoMax<sup>®</sup> WSP Biological Larvicide is an advanced mosquito larvicide based on BioFuse<sup>™</sup> technology—a patented formulation and manufacturing process that combines the time-proven and environmentally compatible bacterial active ingredients *Bacillus thuringiensis* subsp. *israelensis* strain AM65-52 and *Bacillus sphaericus* strain ABTS-1743 into a single microparticle. The mosquito larvae get a dose of a carefully selected ratio of both toxins when VectoMax WSP particles are ingested. VectoMax consists of only *Bti*, *Bsph*, and food-grade (U.S. EPA list 4) inert ingredients. As such, VectoMax has received approval for application in organic crops and sensitive habitats around the world. VectoMax WSP has a potency of 50 *Bacillus sphaericus* International Toxin Units (*Bs*/ITU) per milligram against *Culex quinquefasciatus*.

### Developed “By Request”

The water-soluble pouch concept was developed at the request of mosquito control professionals. With the spread of West Nile virus in the United States beginning in 1999, Valent BioSciences was asked by mosquito abatement programs to develop a formulation that could be easily applied to catch basins for control of mosquito larvae. For this purpose, Valent BioSciences introduced VectoLex<sup>®</sup> WSP Biological Larvicide (active ingredient: *Bacillus sphaericus* strain ABTS-1743) in 2001. Since then, the popularity of this product launched additional WSP formulations from other companies for both professional and consumer use.

## Application Flexibility

VectoMax WSP is a water-soluble pouch containing 10 grams of VectoMax FG. The formulation is ideal for treatment of catch basins and other breeding sites where placement applications provide value:

- Controls all mosquito species
- Can be used in clean and polluted habitats
- Provides up to 56 days of residual control in catch basins
- VectoMax WSP is malleable and slips into tight spots (e.g., catch basin grates) and does not get hung up in debris or buried in sludge at the bottom of catch basins like briquettes and tablets
- Once placed in water, VectoMax WSP quickly dissolves (in ~1 minute depending on water temperature), releasing the VectoMax granules. The carrier disperses on the water surface and in the water column, distributing micro particles containing both *Bti* and *Bsph* in a specific ratio into the larval feeding zone.



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## Application Rates



**HABITATS** (such as the following examples)

**Drainage/Drainage Systems:**

Storm drains; catch basins; retention, detention, and seepage ponds

**Treatment Areas (for use in):**

- |  |   |   |   |
|--|---|---|---|
| <ul style="list-style-type: none"><li>• Ponds</li><li>• Lagoons</li><li>• Water gardens</li><li>• Hollow trees and tree holes</li><li>• Urns</li><li>• Rain barrels</li><li>• Livestock watering troughs/ ponds/tanks</li><li>• Irrigation ditches</li></ul> | <ul style="list-style-type: none"><li>• Roadside ditches</li><li>• Impounded wastewater associated with fruit and vegetable processing</li><li>• Animal waste lagoons</li><li>• Floodwater</li><li>• Standing water</li><li>• Birdbaths</li><li>• Fountains</li></ul> | <ul style="list-style-type: none"><li>• Flowerpots and planters</li><li>• Snowmelt pools</li><li>• Septic tanks</li><li>• Abandoned swimming pools</li><li>• Unused swimming pools or spas</li><li>• Flooded basements</li><li>• Pool covers</li><li>• Gutters and drains</li></ul> | <ul style="list-style-type: none"><li>• Wheelbarrows</li><li>• Garbage cans and covers</li><li>• Discarded tires</li><li>• Any location where water accumulates and remains standing for periods of time, except treated, finished drinking water for human consumption</li></ul> |
|--|---|---|---|

**For closed habitats** such as drainage/drainage systems (e.g., catch basins, storm drains), use 1 pouch per 50 square feet (4.6 square meters). Treat on basis of surface area of potential mosquito breeding sites by placing one (1) VectoMax Water Soluble Pouch for up to 50 square feet (4.6 square meters) of treatment area. Reapply as needed (up to 56 days under typical environmental conditions).

**For open habitats** (e.g., abandoned pools) use 1 pouch /50 square feet (4.6 square meters). Treat on basis of surface area of potential mosquito breeding sites by placing one (1) VectoMax Water Soluble Pouch for up to 50 square feet (4.6 square meters) of treatment area. Reapply as needed (up to 28 days under typical environmental conditions). Longer periods of mosquito population suppression may result where sufficient numbers of non-target aquatic invertebrate parasites and predators are present since these are not affected by the product and contribute to mosquito population reduction.

## Packaging

VectoMax WSP is packaged into foil pouches. Each foil pouch holds 40 individual water-soluble packets. Smallest available pack size is 20 x foil pouches packaged into a cardboard box (800 water soluble pouches). Check with your local distributor or Valent BioSciences technical representative to see what packaging is available in your area.

