

# **CUMBERLAND COUNTY MOSQUITO CONTROL DIVISION QUESTIONS AND ANSWERS**

## **What does our agency do?**

Cumberland County Mosquito Control is a division of the Public Works Department of Cumberland County and is involved in all aspects of mosquito control. We have personnel who inspect known mosquito habitats for the presence of mosquitoes and apply pesticides to those areas as necessary. In addition, these inspectors respond to service requests by inspecting and treating any mosquito habitats found at residents' homes or businesses. Our Superintendent is a graduate-level entomologist and we have a Biologist who assists in inspections and control, is responsible for mosquito surveillance through the use of various types of mosquito traps, and is responsible for mosquito identification. In addition, the Biologist is responsible for public education, and will conduct educational programs for schools, civic groups, and other organizations upon request.

Our agency also participates in a vector surveillance program coordinated by Rutgers University and the Office of Mosquito Control Coordination, a division of the New Jersey Department of Environmental Protection. This program involves sampling mosquitoes from various areas throughout the County and sending them to the New Jersey Department of Health and Senior Services to have them tested for both West Nile Virus and Eastern Equine Encephalitis. If any sampled mosquitoes test positive for either virus, we will intensify our inspection and control efforts in those areas in an attempt to minimize possible risk to County residents and their horses.

## **How does our agency control mosquitoes?**

Cumberland County Mosquito Control Division uses an integrated pest management (IPM) approach for the control of mosquitoes. This approach utilizes several methods of pest control, including mechanical control, biological control, and chemical control.

- wheelbarrows
- ornamental ponds without proper aeration or fish
- empty planting pots

Anything holding water for at least four days can become a mosquito habitat. In addition, if you find a mosquito habitat, or if you think you might have an area conducive to the placement of fish, do not hesitate to call our office.

**Which pesticides are used to control mosquitoes in Cumberland County and how are they applied?**

In Cumberland County we use larvicides, a larvicide/pupicide, and adulticides to control mosquitoes.

The larvicides we use include:

- Abate 2-BG – active ingredient is temephos
- Altosid – active ingredient is methoprene
- Aquabac – active ingredient is *Bacillus thuringiensis israelensis*
- Natular-active ingredient is Spinosad
- Provect 2G – active ingredient is temephos
- Teknar – active ingredient is *Bacillus thuringiensis israelensis*
- Vectobac 12AS – active ingredient is *Bacillus thuringiensis israelensis*
- Vectobac CG – active ingredient is *Bacillus thuringiensis israelensis*
- Vectolex CG – active ingredient is *Bacillus sphaericus*

The larvicide/pupicide we use is:

- Agnique MMF – active ingredient is ethoxylated alcohol (mineral oil)

The adulticides we use include:

- Mavrik – active ingredient is tau-Fluvalinate
- Zenivex – active ingredient is etofenprox

Abate 2-BG is used in granular form and is applied directly to water with a granule, or seed spreader, or may be applied by aircraft. Altosid is used as a 30-day or 150-day briquet and is placed directly in water. Aquabac is

For general information:

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center** 800-858-7378  
<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System** 800-222-1222  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program** 609-984-6507  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs** 877-251-4575  
<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:

**NJDEP Office of Mosquito Control Coordination** 609-292-3649  
<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:

**Cumberland County Mosquito Control Division** 856-453-2192  
<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:

**Rutgers University, Department of Entomology** 732-932-9437  
<http://www-rci.rutgers.edu/~insects>

For local health information:

**Cumberland County Health Department** 856-327-7602  
<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>

**Where can I find more specific information on mosquito spraying in Cumberland County and how will I be notified?**

Call the Cumberland County Mosquito Control Division at 856-453-2192 or check the website for the spray schedule, which is updated daily, at

## LEGAL NOTICE

Mosquito control is everyone's responsibility; please do your part by preventing mosquitoes from inhabiting your property. For more information on mosquitoes & mosquito control, contact The Cumberland County Mosquito Control Division at 856-453-2192, and visit our website at [www.co.cumberland.nj.us](http://www.co.cumberland.nj.us).

In compliance with section 9.10 & 9.15 of the New Jersey Pesticide Control Code (N.J.A.C. Title 7, Chapter 30), the Cumberland County Mosquito Control Division may be applying pesticides for the control of adult mosquito populations on an area-wide basis, as needed, throughout Cumberland County during the period of May 1, 2013 through October 31, 2013.

The pesticides used will be those recommended by the New Jersey Agricultural Experiment Station (NJAES), Rutgers University, for the control of adult mosquitoes, which include: tau-Fluvalinate (Mavrik®), Malathion (Fyfanon®), and Etofenprox (Zenivex®). Products will be applied from the ground by truck and/or by aircraft, using Low-Volume or Ultra-Low Volume techniques. The applications will be made according to product labeling.

Contact the National Pesticide Information Center at 1-800-858-7378 for routine pesticide-related health inquiries. Call the New Jersey Pesticide Control Program at 1-609-984-6507 for pesticide regulation information, pesticide complaints, and health referrals. In case of any pesticide emergency, please contact the New Jersey Poison Information and Education System at 1-800-222-1222.

Upon request, the Cumberland County Mosquito Control Division shall provide a resident with notification at least 12 hours prior to the application, except for quarantine and disease vector control only, when conditions may necessitate pesticide applications sooner.

Those seeking further information regarding the Cumberland County Mosquito Control Division activities are requested to contact:

Heather A. Lomberk, M.S.  
Superintendent  
NJCPA License # 29915A  
Telephone # 856-453-2170  
800 E. Commerce Street  
Bridgeton, New Jersey 08302

## Fact Sheet

# Abate® 2-BG, Provect® 2G

This sheet answers some basic questions about a mosquito control product in use in your county. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

### **What are Abate® 2-BG and Provect® 2G and how are they used?**

**Abate® 2-BG and Provect® 2G** are insecticide products recommended for mosquito control in New Jersey by Rutgers, The State University of New Jersey. They contain the pesticide called Temephos. The U.S. Environmental Protection Agency's (EPA) current evaluation considers **Temephos**-containing products to be slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

**Abate® 2-BG and Provect® 2G** are granular pesticide products used to prevent mosquitoes from emerging into adults from lakes, ponds, and other bodies of water. They act on the larva, or immature stage of the mosquito, in water immediately before the flying mosquito emerges. **Abate® 2-BG and Provect® 2G** are part of a mosquito management approach using habitat management and other measures to control immature mosquitoes to decrease the need to spray for adults.

### **How can I avoid exposure to Abate® 2-BG and Provect® 2G?**

Risk to the general public from the use of **Abate® 2-BG and Provect® 2G** is minimal. Avoiding exposure is always the safest course of action, particularly for populations whose members may be at higher risk such as pregnant women, children, the elderly, and those with chronic illnesses. Any possible exposure risk can be reduced by following some common sense actions:

- ❖ Plan your activities to limit time spent outside during times of possible pesticide treatments.
- ❖ Avoid direct contact with treated bodies of water.
- ❖ Avoid direct contact with the granules. If there is contact with your eyes or skin, immediately flush and rinse with water.
- ❖ Stay away from application equipment, whether or not it is in use.

## **What are the symptoms of exposure to Abate® 2-BG and Provect® 2G?**

Symptoms of exposure can include headache, nausea, dizziness, excessive sweating, salivation, excessive tearing, and a runny nose. The chance of experiencing these symptoms of exposure with proper use is low. You should contact your physician, other medical providers, or the New Jersey Poison Information and Education System (NJPIES) at **1-800-222-1222** if you experience these symptoms following a pesticide application. Bring this sheet with you if you visit a physician or other medical provider.

## **How long will Abate® 2-BG and Provect® 2G last in the environment?**

**Temephos** has a low persistence and will break down in water within a few days. In soil, it breaks down in approximately 30 days.

## **Where can I get more information on Abate® 2-BG and Provect® 2G?**

The following are resources for more information regarding **Abate® 2-BG and Provect® 2G** and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center**

**800-858-7378**

<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System 800-222-1222**  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:  
**NJDEP Pesticide Control Program 609-984-6507**  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulation:  
**USEPA Region 2 Office of Pesticide Programs 877-251-4575**  
<http://www.epa.gov/ebtpages/pesticides.html>

For statewide mosquito control information:  
**NJDEP Office of Mosquito Control Coordination 609-292-3649**  
<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:  
**Cumberland County Mosquito Control Division 856-453-2192**  
<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:  
**Rutgers University, Department of Entomology 732-932-9774**  
<http://www-rci.rutgers.edu/~insects>

For local health information:  
**Cumberland County Health Department 856-327-7602**  
<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>

## Fact Sheet

### Agnique™ MMF

This sheet answers some basic questions about a mosquito control product in use in your county. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

#### **What is Agnique MMF and how is it used?**

**Agnique MMF** is an insecticide product recommended for mosquito control in New Jersey by Rutgers, The State University of New Jersey. It contains the pesticide called Ethoxylated Alcohol. It is a monomolecular film that spreads thinly on the surface of the water. It is registered for use as both a larvicide and a pupicide, but is usually applied as a pupicide with a hand held compressed air sprayer.

#### **How does Agnique MMF work?**

When the film spreads on the surface of the water, mosquito larvae, pupae, and emerging adults find it difficult to attach to the water's surface, causing them to drown. The film remains active for typically 10-14 days and is used in standing water, ponds, swamps, ditches, and floodwater areas.

#### **Is Agnique MMF toxic to humans?**

**Agnique MMF** is only slightly toxic to humans, with minimal potential risk, when used properly as part of an integrated mosquito control program. Since the material is applied directly to areas of standing water, there is little opportunity for human exposure. In addition, it has a very low persistence in the environment.



## **What are the general symptoms of exposure to Agnique MMF?**

**Agnique MMF** may cause minor eye irritation with prolonged or repeated contact with the eyes. It does not irritate skin, nor has it been shown through animal tests to be toxic by inhalation or ingestion.

## **How can I reduce my exposure to Agnique MMF?**

- ❖ Stay away from application equipment, whether or not it is in use.

## **Where can I get more information on Agnique MMF?**

The following are resources for more information regarding **Agnique MMF** and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center**

**800-858-7378**

<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System**

**800-222-1222**

<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program**

**609-984-6507**

<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs**

**877-251-4575**

<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:

**NJDEP Office of Mosquito Control Coordination**

**609-292-3649**

<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:

**Cumberland County Mosquito Control Division**

**856-453-2192**

<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:

**Rutgers University, Department of Entomology**

**732-932-9437**

<http://www-rci.rutgers.edu/~insects>

For local health information:

**Cumberland County Health Department**

**856-327-7602**

**<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>**

# Fact Sheet

## Altosid®

This sheet answers some basic questions about a mosquito control product in use in your county. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

### **What is Altosid and how is it used?**

**Altosid** is an insecticide product recommended for mosquito control in New Jersey by Rutgers, The State University of New Jersey. It contains the pesticide called **Methoprene**. The U.S. Environmental Protection Agency's (EPA) current evaluation considers **Methoprene**-containing products to be very slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

**Altosid** is used to prevent mosquitoes from emerging into adults from lakes, ponds, and other bodies of water. It acts on the larva, or immature stage of the mosquito, in water immediately before the flying mosquito emerges. **Altosid** is part of a mosquito management approach using habitat management and other measures to control immature mosquitoes in order to decrease the need to spray for adults.

### **How can I avoid exposure to Altosid?**

Risk to the general public from the use of **Altosid** is minimal. Avoiding exposure is always the safest course of action, particularly for populations whose members may be at higher risk such as pregnant women, children, the elderly, and those with chronic illnesses. Any possible exposure risk can be reduced by following some common sense actions:

- ❖ Plan your activities to limit time spent outside during times of possible pesticide treatments.
- ❖ Avoid direct contact with treated bodies of water.
- ❖ Move children's toys out of application areas.
- ❖ Move animals and their food and water dishes out of application areas.
- ❖ Stay away from application equipment, whether or not it is in use.

### **What are the symptoms of exposure to Altosid?**

**Methoprene** is not a skin irritant or a sensitizer. The chance of experiencing symptoms of exposure with proper use is very low. You should contact your physician, other medical providers, or the New Jersey Poison Information and Education System (NJPIES) at **1-800-222-1222** if you experience any symptoms following a pesticide spraying. Bring this sheet with you if you visit a physician or other medical provider.

### **How long will Altosid last in the environment?**

**Methoprene** has a low persistence and breaks down in water within a few days. In soil, it breaks down in less than 10 days.

### **Where can I get more information on Altosid?**

The following are resources for more information regarding **Altosid** and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center** **800-858-7378**  
<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System** **800-222-1222**  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program** **609-984-6507**  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs** **877-251-4575**  
<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:

**NJDEP Office of Mosquito Control Coordination**

**609-292-3649**

<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:

**Cumberland County Mosquito Control Division**

**856-453-2192**

<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:

**Rutgers University, Department of Entomology**

**732-932-9437**

<http://www-rci.rutgers.edu/~insects>

For local health information:

**Cumberland County Health Department**

**856-327-7602**

<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>

## *“Mavrik® Perimeter”* Adulticide Fact Sheet

**Municipalities are encouraged to share this information with all residents in their community.**

This Fact Sheet answers some basic questions about mosquito control products in use in your County. The Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

### **What is *Mavrik® Perimeter* adulticide and how is it used?**

*Mavrik® Perimeter* contains a pesticide called *tau-Fluvalinate*, a member of the category of pesticides called *synthetic pyrethroids*, which are synthetic versions of pesticides produced by plants called pyrethrins. The current U.S. Environmental Protection Agency’s (EPA) evaluation considers *tau-Fluvalinate*-containing products to be slightly toxic with minimal potential risk to people when used properly as a part of a complete mosquito control program.

*Mavrik® Perimeter* is used for the control of adult mosquitoes. While habitat management and measures to control immature mosquitoes in water are preferred and most used, the spraying of adult mosquitoes is necessary when biting populations reach critical levels or when a disease organism is present in adult mosquitoes. A coarse mist is applied to foliage surrounding an area in need of protection from mosquitoes. The product produces a residue, which delivers extended control beyond that achieved with conventional adulticide applications.

### **How can I reduce my exposure to *Mavrik® Perimeter*?**

Risk to the general public from the use of *Mavrik® Perimeter* is minimal. Avoiding exposure is always the safest course of action, particularly for populations whose members may be at higher risk, such as pregnant women, children, the elderly, and those with chronic illnesses. Any possible exposure risk can be reduced by following some common sense actions:

- Pay attention to notices about spraying found through newspapers, websites, automated telephone messages or distributed by municipal, county, or state agencies.
- Plan your activities to limit time spent outside during times of possible pesticide treatments.
- Move your pets, their food, and water dishes inside during ULV applications. Also bring clothing and children's toys inside.
- Stay away from application equipment, whether or not it is in use.
- Whenever possible, remain indoors with windows closed, window air conditioners on non-vent (closed to the outside air), and window fans turned off during spraying.
- Avoid direct contact with surfaces still wet from pesticide spraying. Do not allow children to play in areas that have been sprayed until they have completely dried (approximately one hour).
- If you must remain outdoors, avoid eye and skin contact with the spray. If you get spray in your eyes or on your skin, immediately flush and rinse with water.

#### **What are the symptoms of exposure to *Mavrik® Perimeter*?**

Symptoms of over-exposure can include salivation, nausea, vomiting, initial excitation followed by sedation, skin irritation, eye irritation, and sensitive individuals may temporarily experience an itching or burning sensation, with or without a rash. The chance of experiencing these symptoms of over-exposure with proper use is low. You should contact your physician, other medical providers, or the New Jersey Poison Information and Education System (NJPIES) at 1-800-222-1222 if you experience these symptoms following a pesticide spraying. Bring this sheet with you if you visit a physician or other medical provider.

#### **How long will *Mavrik® Perimeter* last in the environment?**

The *Mavrik® Perimeter* spray stays in the air for a short time until it lands on surfaces. *tau-Fluvalinate* persists for less than 15 days in soil. Currently, there is no information available regarding the persistence of tau-Fluvalinate in water nor is there information available on the effects of sun light on the compound.

## Where can I get more information on this adulticide?

The following are resources for more information regarding *Mavrik® Perimeter* and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center** 800-858-7378  
<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System** 800-222-1222  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program** 609-984-6507  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs** 877-251-4575  
<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:

**NJDEP Office of Mosquito Control Coordination** 609-292-3649  
<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:

**Cumberland County Mosquito Control Division** 856-453-2192  
<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:

**Rutgers University, Department of Entomology** 732-932-9437  
<http://www-rci.rutgers.edu/~insects>

For local health information:

**Cumberland County Health Department** 856-327-7602  
<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>



## Fact Sheet

### Natular® XRG

This sheet answers some basic questions about a mosquito control product in use in Cumberland County. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

#### **What is Natular® and how is it used?**

**Natular®** is a bacterial larvacide that is in use by Cumberland County Mosquito Control on a limited basis this year. It contains the active ingredient called “*Spinosad*.” Spinosad is made up of the complex organic compounds spinosyn A and spinosyn D, which are created by soil microbes. The U.S. Environmental Protection Agency’s (EPA) current evaluation considers **spinosyn**-containing products to be slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

**Natular®** contains parts of a naturally occurring soil bacterium. When mosquito larvae eat the spores, toxins are released by the mosquito’s stomach fluids, which in turn cause the larvae to die. **Natular®** is part of a mosquito management approach using habitat management and other measures to control immature mosquitoes in order to lessen the need to spray for adult mosquitoes.

#### **How can I avoid exposure to Natular®?**

Risk to the general public from the use of **Natular®** is very minimal. The organic compounds that are so lethal to mosquitoes are harmless to mammals. Avoiding exposure is always the safest course of action, particularly for populations that may be at higher risk such as pregnant women, children, the elderly and those with chronic illness. Any possible exposure risk can be reduced by following some common sense actions:

- Plan your activities to limit time spent outside during times of possible pesticide treatments.
- Avoid direct contact with water bodies that have been treated.
- Move children’s toys out of application areas.

- Move animals and their food and water dishes out of application areas.
- Stay away from application equipment, whether in use or not.

**What are the symptoms of exposure to Natular®?**

Direct contact with eyes or skin may cause mild irritation or discomfort. The chance of experiencing these symptoms of exposure with proper use is low. You should contact your physician, other medical providers or the New Jersey Poison Information and Education System (NJPIES) at **1-800-222-1222** if you experience these symptoms following a pesticide spraying. Bring this sheet with you if you visit a physician or other medical provider.

**How long will Natular® last in the environment?**

Because **spynosin A** and **spynosin D** are biological agents, they tends to break down quickly in the environment. Its breakdown in water or soil usually occurs within hours of use.

**Where can I get more information on Natular®?**

The following are resources for more information regarding **Natular® XRG** and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center** **800-858-7378**  
<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System** **800-222-1222**  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program** **609-984-6507**  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs** **877-251-4575**  
<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:

**NJDEP Office of Mosquito Control Coordination** 609-292-3649  
<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:

**Cumberland County Mosquito Control Division** 856-453-2192  
<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:

**Rutgers University, Department of Entomology** 732-932-9437  
<http://www-rci.rutgers.edu/~insects>

For local health information:

**Cumberland County Health Department** 856-327-7602  
<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>

For general information on the pesticide Natular® XRG and Spinosad:

**EPA:**

<http://www.epa.gov/pesticides/health/mosquitoes/larvicides4mosquitoes.htm>

**Clarke Mosquito Control Products (Distributor):**

<http://www.clarkemosquito.com>

## Fact Sheet

# Aquabac<sup>®</sup>, Vectobac<sup>®</sup> and Teknar<sup>®</sup>

This sheet answers some basic questions about a mosquito control product in use in your county. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

### **What are Aquabac, Vectobac and Teknar and how are they used?**

**Aquabac, Vectobac and Teknar** are insecticide products recommended for mosquito control in New Jersey by Rutgers, The State University of New Jersey. They contain the pesticide called *Bacillus thuringiensis israelensis (Bti)*. The U.S. Environmental Protection Agency's (EPA) current evaluation considers *Bti*-containing products to be very slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

**Aquabac, Vectobac and Teknar** are used to prevent mosquitoes from emerging into adults from lakes, ponds, and other bodies of water. It acts on the larva, or immature stage of the mosquito, in water immediately before the flying mosquito emerges. **Aquabac, Vectobac and Teknar** are part of a mosquito management approach using habitat management and other measures to control immature mosquitoes in order to decrease the need to spray for adults.

### **How can I avoid exposure to Aquabac, Vectobac and Teknar?**

Risk to the general public from the use of **Aquabac, Vectobac and Teknar** is minimal. Avoiding exposure is always the safest course of action, particularly for populations whose members may be at higher risk, such as pregnant women, children, the elderly, and those with chronic illnesses. Any possible exposure risk can be reduced by following some common sense actions:

- ❖ Plan your activities to limit time spent outside during times of possible pesticide treatments.
- ❖ Avoid direct contact with treated bodies of water.
- ❖ Move children's toys out of application areas.
- ❖ Move animals and their food and water dishes out of application areas.
- ❖ Stay away from application equipment, whether or not it is in use.

### **What are the symptoms of exposure to Aquabac, Vectobac and Teknar?**

Direct contact with eyes or skin may cause mild irritation or discomfort. The chance of experiencing these symptoms of exposure with proper use is low. You should contact your physician, other medical providers, or the New Jersey Poison Information and Education System (NJPIES) at **1-800-222-1222** if you experience these symptoms following a pesticide spraying. Bring this sheet with you if you visit a physician or other medical provider.

### **How long will Aquabac, Vectobac and Teknar last in the environment?**

Because *Bti* is a biological agent, it tends to break down quickly in the environment. Its breakdown in water or soil usually occurs within hours of use.

### **Where can I get more information on Aquabac, Vectobac and Teknar?**

The following are resources for more information regarding **Aquabac, Vectobac and Teknar** and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center**

**800-858-7378**

<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System**

**800-222-1222**

<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:  
**NJDEP Pesticide Control Program** 609-984-6507  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:  
**USEPA Region 2 Office of Pesticide Programs** 877-251-4575  
<http://www.epa.gov/ebtpages/pesticides.html>

For state-wide mosquito control information:  
**NJDEP Office of Mosquito Control Coordination** 609-292-3649  
<http://www.state.nj.us/dep/mosquito>

For local mosquito control information:  
**Cumberland County Mosquito Control Division** 856-453-2192  
<http://www.co.cumberland.nj.us/content/173/251/767/2614/default.aspx>

For mosquito control recommendations:  
**Rutgers University, Department of Entomology** 732-932-9437  
<http://www-rci.rutgers.edu/~insects>

For local health information:  
**Cumberland County Health Department** 856-327-7602  
<http://www.co.cumberland.nj.us/content/173/10546/default.aspx>

## Fact Sheet

### VectoLex® CG

This sheet answers some basic questions about a mosquito control product in use in your county. Your Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

#### **What is VectoLex and how is it used?**

**VectoLex** is an insecticide product that is recommended for mosquito control in New Jersey by Rutgers, The State University of New Jersey. It contains the pesticide called *Bacillus sphaericus (Bsph)*. The U.S. Environmental Protection Agency's (EPA) current evaluation considers *Bsph*-containing products to be very slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

**VectoLex** is used to prevent mosquitoes from hatching in lakes, ponds, and other bodies of water. It acts on the larval or immature stage of the mosquito in water before the flying mosquito emerges. **VectoLex** is part of a mosquito management approach using habitat management and other measures to control immature mosquitoes in order to lessen the need to spray for adult mosquitoes.

#### **How can I avoid exposure to VectoLex?**

Risk to the general public from the use of **VectoLex** is minimal. Avoiding exposure is always the safest course of action, particularly for populations that may be at higher risk, such as pregnant women, children, the elderly, and those with chronic illnesses. Any possible exposure risk can be reduced by following some common sense actions:

- ❖ Plan your activities to limit time spent outside during times of possible pesticide treatments.
- ❖ Avoid direct contact with water bodies that have been treated.

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## “*Zenivex™ E20*” Adulticide Fact Sheet

**Municipalities are encouraged to share this information with all residents in their community**

This Fact Sheet answers some basic questions about mosquito control products in use in your County. The Cumberland County Mosquito Control Division, along with several other resources (listed at the end of this sheet), can provide more detailed information.

### **What is *Zenivex™ E20* adulticide and how is it used?**

*Zenivex™ E20* contains a pesticide called *Etofenprox*, a member of the category of pesticides called *non-ester pyrethroids*, which are synthetic versions of pesticides produced by plants called pyrethrins. Traditional pyrethroid/piperonyl butoxide mixtures are recommended for Ultra-Low-Volume (ULV) mosquito control in New Jersey by Rutgers, The State University of New Jersey. *Zenivex™ E20* is a non-ester pyrethroid, and therefore does not require a synergist such as piperonyl butoxide. The U.S. Environmental Protection Agency (EPA) has classified *Etofenprox* as a reduced risk pesticide. It poses a low risk to human health and the environment when used properly as part of an integrated mosquito control program. As formulated in *Zenivex™ E20* adulticide, *Etofenprox* is considered a non-carcinogen, non-teratogen and non-mutagen.

This non-ester pyrethroid-containing product is used for the control of adult mosquitoes. While habitat management and measures to control immature mosquitoes in water are preferred and most used, the spraying of adult mosquitoes is necessary when biting populations reach critical levels or when a disease organism is present in adult mosquitoes. A very fine mist is sprayed into the air since flying mosquitoes must directly contact the pesticide in order for it to be effective.

## Where can I get more information on this adulticide?

The following are resources for more information regarding *Zenivex™ E20* and mosquito control in your area (unless otherwise noted, available during normal business hours):

For overall pesticide-specific information – 9:30am to 7:30pm:

**National Pesticide Information Center** 800-858-7378  
<http://npic.orst.edu>

For pesticide health information & possible exposures – 24 hours:

**New Jersey Poison Information & Education System** 800-222-1222  
<http://www.njpies.org>

For New Jersey pesticide regulation & misuse complaints:

**NJDEP Pesticide Control Program** 609-984-6507  
<http://www.state.nj.us/dep/enforcement/pcp/>

For Federal pesticide regulations:

**USEPA Region 2 Office of Pesticide Programs** 877-251-4575  
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