

VectoBac® G / CG

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

What is VectoBac® and how is it used?

VectoBac® is a bacterial larvicide that is recommended for mosquito control in New Jersey by the Agricultural Experiment Station of Rutgers University. It contains the active ingredient called “*Bacillus thuringiensis israelensis* (**Bti**).” The U.S. Environmental Protection Agency’s (EPA) current evaluation considers **Bti**- containing products to be slightly toxic with minimal potential risk to people when used properly as part of a complete mosquito control program.

VectoBac® 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. **VectoBac®** 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 VectoBac®?

Risk to the general public from the use of **VectoBac®** is very minimal. The bacterial spores that are so lethal to mosquitoes are harmless to other organisms. 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 VectoBac®?

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 VectoBac® 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 VectoBac®?

The following are resources for more information regarding **VectoBac® 12AS** 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

732-321-6759

<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:

Essex County Mosquito Control

973-239-3366 x2480

<http://www.essex-countynj.org/index.php?section=dept/mo>

For mosquito control recommendations:

Rutgers University, Department of Entomology

732-932-9437

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

For general information on the pesticide VectoBac® 12AS and Bti:

Extension Toxicology Network:

<http://npic.orst.edu/factsheets/BTgen.pdf>

EPA:

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

Valent Biosciences Corp (Manufacturer):

<http://www.valentbiosciences.com/>

Clarke Mosquito Control Products (Distributor):

<http://www.clarkemosquito.com>