

MIDDLESEX COUNTY MOSQUITO EXTERMINATION COMMISSION

200 PARSONAGE ROAD • EDISON, NJ 08837-2118



EXECUTIVE DIRECTOR
John A. Kranz

Supporter of the US EPA PESP Document

TELEPHONE: (732) 549-0665
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March 18, 2010

Clerk
Borough of Spotswood
Municipal Building
77 Summerhill Road
Spotswood NJ 08884

Enclosed you will find New Jersey Department of Environmental Protection Agency approved information about the Middlesex County Mosquito Extermination Commission's (Commission) operations. This information is being sent to you to be in compliance with N.J.A.C. 7:30-9.10e.

Specifically, there is a question and answer sheet on "Mosquitoes – What Everyone Should Know"; a pesticide fact sheet on *Fyfanon*[®], *Duet Dual-Action*[®] Adulticide and *Scourge*[®], the three adulticides that may be used by the Commission to control disease and nuisance levels of adult mosquitoes and an example of the "Public Notice for Adult Mosquito Spraying" which will appear in local papers for the period of May 10, 2010 through October 29, 2010.

Pursuant to N.J.A.C. 7:30-9.10(e) 2iii, "Municipalities are encouraged to share this information with all residents in their community."

If desired, you may contact the Commission to arrange for a speaker to talk about mosquito control in your municipality.

Sincerely yours,

A handwritten signature in black ink, appearing to read "John A. Kranz", written over a printed name and title.

John A. Kranz
Executive Director

Enclosures
dm

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2010 Public Notice for Mosquito Adulticiding

Mosquito control is everyone's responsibility; please do your part by preventing mosquito production on your property. For more information on mosquitoes and mosquito control, contact the Middlesex County Mosquito Extermination Commission (MCMEC) at 732-549-0665 and/or visit our website at www.co.Middlesex.nj.us/mosquito/index.asp. In compliance with section 9.10 and 9.15 of the New Jersey Pesticide Control Code (N.J.A.C. Title 7, Chapter 30) the MCMEC may be applying pesticides for the control of adult mosquito populations on an area-wide basis, as needed, throughout Middlesex County during the period of May 10th, 2010 through October 29th, 2010. 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: Malathion (Fyfanon ULV®, Atrapa®, or MicroFloMalathion®); Resmethrin and piperonyl butoxide (Scourge®); and/or pyrethrin (Pyrethrum ULV Insecticide); Sumithrin and piperonyl butoxide (Anvil, AquaAnvil, or Duet). Products will be applied from the ground by truck or handheld equipment and/or by aircraft, all using low volume (LV) or ultra low volume (ULV) techniques. All applications will be 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 the case of any pesticide emergency please contact the New Jersey Poison Information and Education System at 1-800-222-1222. "Upon request the MCMEC shall provide a resident with notification at least 12 hours prior to the application, except for Quarantine and Disease Vector Control only, when conditions necessitate pesticide applications sooner than that time". This phone number/website is for updated information on time and location of adult mosquito control application(s); 732-549-0665/www.co.Middlesex.nj.us/mosquito/spray.asp. Those seeking further information regarding the MCMEC activities are requested to contact Glenn A. Levinson, NJCPA # 28493B, 732-549-0665, 200 Parsonage Road, Edison, NJ 08837.

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"Duet Dual-Action[®] Adulticide"

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

What is *Duet Dual-Action[®]* adulticide and how is it used?

Duet Dual-Action[®] contains two pesticides called ***Prallethrin*** and ***Sumithrin***, and a synergistic compound called ***piperonyl butoxide*** which increases the effectiveness of the pesticides. Prallethrin and Sumithrin are members of a category of pesticides called ***pyrethroids***, which in turn are synthetic versions of pesticides produced by plants called *pyrethrins*. Pyrethroid/piperonyl butoxide mixtures have been recommended for Ultra-Low-Volume (ULV) mosquito control in New Jersey by Rutgers, The State University of New Jersey. The U.S. Environmental Protection Agency's (EPA) current evaluation considers pyrethroid-containing products to be slightly toxic with minimal potential risk to people when used properly as part of an integrated mosquito control program.

This 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 called for 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. The combination of the two pesticides has been shown to produce what the manufacturer calls 'benign agitation'. In other words mosquitoes are agitated from a resting state to a non-biting flying state where they are more vulnerable to pesticide exposure. This makes *Duet Dual-Action[®]* adulticide more effective against hard-to-control



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species like *Aedes albopictus* which typically rest during the evening hours when adulticiding usually takes place.

How can I reduce my exposure to *Duet Dual-Action*®?

Because of the very small amounts of active ingredients released per acre, the risk to the general public from the use of pyrethroid-containing products is minimal. Avoiding exposure is always the safest course of action. 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 application. Also bring clothing and children's toys inside.
- Stay away from application equipment, whether in use or not.
- Whenever possible, remain indoors with windows closed and with window air conditioners on non-vent (closed to the outside air) and window fans turned off during spraying.
- Avoid direct contact with surfaces that are 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 *Duet Dual-Action*® ?

Symptoms of over-exposure can include irritation to skin and eyes, respiratory and nasal irritation, irritability to sound or touch, abnormal facial sensation, sensation of prickling, tingling or creeping of skin, numbness, headache, dizziness, nausea, vomiting, diarrhea, excessive salivation, and fatigue. 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.



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How long will *Duet Dual-Action*[®] last in the environment?

Pyrethroids have a soil half-life of 12 days. They have an extremely low pesticide movement rating because they bind tightly to the soil. Pyrethroids are unstable in light and air. They rapidly degrade in sunlight at the soil surface and in water. Piperonyl butoxide has a soil half-life of approximately 4 days.

Where can I get more information on this adulticide?

The following are resources for more information regarding *Duet Dual-Action*[®] 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**

For pesticide health information & possible exposures – 24 hours:

NJ Poison Information & Education System **800-222-1222**

For pesticide regulation & misuse complaints:

NJDEP Pesticide Control Program **609-984-6507**

For pesticide regulation:

USEPA Region 2 Office of Pesticide Programs **732-321-6768**

For pesticide health information:

Middlesex County Public Health Department **732-745-3100**

For mosquito control insecticide recommendations:

Rutgers University, Department of Entomology **732-932-9774**

Where can I get more information about local mosquito control?

Middlesex County Mosquito Commission **732-549-0665**

(Mon-Fri; 7:00 AM – 3:30 PM)

<http://www.co.middlesex.nj.us/mosquito>

For state-wide mosquito control information:

NJDEP Office of Mosquito Control Coordination **609-292-3649**