

8329-81

11/17/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Karen J. Larson  
Product Registration  
Clarke Mosquito Control Products, Inc.  
159 N. Garden Ave.  
Roselle, Ill 60172

NOV 17 2008

SUBJECT: Application for Pesticide Notification (PRN 98-10)  
Request Primary Brand Name "Natular 1EC," Warranty Statement, and Advisory  
Labeling Change(s)  
EPA Reg. No. 8329-81  
Application Dated October 23, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 10/23/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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(A)

EPA

United States Environmental Protection Agency  
Office of Pesticide Programs (H7505C)  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

Application for Pesticide:

Section I

1. Company/Product Number <b>8329-81</b>	2. EPA Product Manager <b>K. Nesci</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Natular 1EC (formerly GF-1593)</b>	PM# <b>13</b>	
5. Name and Address of Applicant (Include ZIP Code)  Clarke Mosquito Control Products, Inc. 159 N. Garden Avenue Roselle, Illinois 60172  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRT Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:  <b>EPA Reg. No. _____</b> <b>Product Name _____</b>	

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Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)  
**Notification of change in Primary Brand Name and revised Warranty statement. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.**

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No.	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
	If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container	<input type="checkbox"/> Glass
<b>*Certification must be submitted.</b>					<input type="checkbox"/> Paper
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container 2.5-gal, 30-gal, 55-gal, mini-bulk		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other (_____)					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name <b>Karen J. Larson, M.S.</b>		Title <b>Registrations Manager</b>		Telephone No. (Include Area Code) <b>630-674-3123</b>	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received <b>(Stamped)</b>
2. Signature		3. Title <b>Registrations Manager</b>			
4. Typed Name <b>Karen J. Larson</b>		5. Date <b>October 23, 2008</b>			

# CLARKE™

159 NORTH GARDEN AVENUE  
P.O. Box 72197 / ROSELLE, IL 60172  
www.clarkemosquito.com  
TOLL-FREE: 800-323-5727

## Mosquito Control

October 23, 2008

PH: 630-894-2000  
FAX: 630-894-1774

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

- S E R V I C E
- P R O D U C T S
- E Q U I P M E N T
- E D U C A T I O N

Subject: Notification per PR Notice 98-10 - Change in Primary Brand Name

Product: GF-1593  
EPA Reg. No. 8329-81

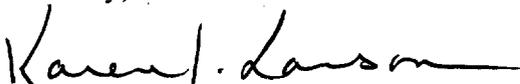
Enclosed is notification per the guidance and requirements of PR Notice 98-10 for the registered product listed above. The subject product was transferred to Clarke Mosquito Control Products, Inc. on October 22, 2008 from Dow AgroSciences, LLC. Pursuant to the change in ownership, enclosed is notification of a change in Primary Brand Name and other advisory label statements, as follows:

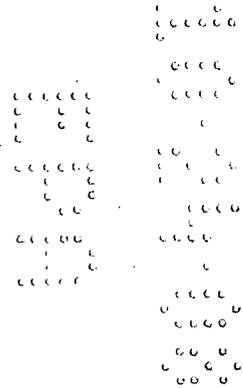
- **Change in Primary Brand Name: Natular 1EC**
- Revised warranty statement
- Company-specific edits, including emergency contact toll-free phone number and format

No other changes have been made to the labeling of the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please do not hesitate to call me directly at (630) 671-3123 or email me at [karenlarson@clarkemosquito.com](mailto:karenlarson@clarkemosquito.com) if you should have any questions about the enclosed.

Sincerely,

  
 Karen J. Larson, M.S.  
 Registrations Manager  
 Clarke Mosquito Control Products, Inc.



Global  
Solutions for  
Mosquito  
Control™



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# Natular 1EC

An insecticide for the control of mosquito larvae.

FOR ORGANIC PRODUCTION

To be used in governmental mosquito control programs, by professional pest control operators, or in other mosquito or midge control operations.

Group	5	INSECTICIDE
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Active Ingredient:		
Spinosad (a mixture of spinosyn A and spinosyn D)*	10.27%	
Other ingredients:	89.73%	
Total	100.00%	

U.S. Patent No. 5,362,634 and 5,496,931

\* Naturalyte® Insect Control

Contains 1 lb of active ingredient per gallon.

## Keep Out of Reach of Children CAUTION

EPA Reg. No. 8329-81

EPA Est. No. 8329-IL-02

Manufactured for  
Clarke Mosquito Control Products, Inc.  
159 North Garden Avenue  
Roselle, IL 60172

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes or clothing. Wear protective eyewear. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

#### FIRST AID

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-214-7752 for emergency medical treatment information.**

#### Environmental Hazards

This product is toxic to aquatic invertebrates. Non-target aquatic invertebrates may be killed in water where this pesticide is used. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas. Drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.

This product is toxic to bees exposed to treatment and for 3 hours following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

### General Information

NATULAR 1EC is a Naturalyte® insect product for killing mosquito and midge larvae. This product's active ingredient, spinosad, is biologically derived from the fermentation of *Saccharopolyspora spinosa*, a naturally occurring soil organism. NATULAR 1EC may be applied with suitable ground or aerial application equipment.

### General Use Precautions

#### Integrated Pest Management (IPM) Programs

NATULAR 1EC is intended to kill mosquito and midge larvae. Mosquitoes are best controlled when an IPM program is followed. Larval control efforts should be managed through habitat mapping, active adult and larval surveillance, and integrated with other control strategies such as source reduction, public education programs, harborage or barrier adult mosquito control applications, and targeted adulticide applications.

#### Insecticide Resistance Management (IRM)

NATULAR 1EC contains a Group 5 insecticide. Insect biotypes with acquired resistance to Group 5 insecticides may eventually dominate the insect population if appropriate resistance management strategies are not followed. Currently, only spinetoram and spinosad active ingredients are classified as Group 5 insecticides. Resistance to other insecticide groups is not likely to impact the effectiveness of this product. Spinosad may be used in rotation with all other labeled products in a comprehensive IRM program.

To minimize the potential for resistance development, the following practices are recommended:

- Base insecticide use on comprehensive IPM and IRM programs.
- Do not use less than the labeled rates.
- Routinely evaluate applications for loss of effectiveness.
- Rotate with other labeled effective mosquito larvicides that have a different mode of action.
- In dormant rice fields, standing water within agricultural/crop sites, and permanent marine and freshwater sites, do not make more than 20 applications per year.
- Use insecticides with a different mode of action (different insecticide group) on adult mosquitoes so that both larvae and adults are not exposed to products with the same mode of action.
- Contact your local extension specialist, technical advisor, and/or Clarke Mosquito Control representative for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact your local Clarke Mosquito Control representative by calling 800-323-5727.

### Mixing

NATULAR 1EC should be diluted with water. Shake well before using as NATULAR 1EC may separate on standing and must be thoroughly agitated prior to dilution. Partially fill spray tank with water. Start agitation and add the required amount of NATULAR 1EC. Continue agitation while mixing and filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source. Do not mix more NATULAR 1EC than can be used in a single application.

**Mixing Formula:** If an application rate of X fl oz of NATULAR 1EC per acre is desired, the spray equipment is calibrated to deliver Y gallons per acre, and a total of Z acres is being treated, the following formula would apply:

$$X \text{ fl oz of NATULAR 1EC per acre} \times Z \text{ acres to be treated} = W \text{ total fl oz of NATULAR 1EC required}$$

$$Y \text{ gallons per acre} \times Z \text{ acres to be treated} = V \text{ total volume of water required}$$

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To treat Z acres, mix W fl oz of NATULAR 1EC in V gallons of water and apply at a rate of Y gallons per acre.

For example, to treat 10 acres at 4 fl oz of NATULAR 1EC per acre with equipment calibrated at 2 gallons per acre, mix 40 fl oz of NATULAR 1EC into 20 gallons of water and apply at a rate of 2 gallons of finished spray per acre. The addition of NATULAR 1EC to the total volume of water will not significantly affect the total targeted volume of spray mixture.

**Spray Drift Management**

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making the decision to apply this product.

The following spray drift management requirements must be followed to avoid off-target drift movement from applications.

1. The boom width must not exceed 75% of the wingspan or 90% of the rotor blade.
2. Nozzles must always point backward, parallel with the air stream, and never be pointed downward more than 45 degrees.
3. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
4. Do not apply when wind speed favors drift beyond the treatment area.

Where states have more stringent regulations, they must be observed.

**Application**

Proper application techniques help ensure adequate coverage and correct dosage necessary to obtain optimum kill of mosquito and midge larvae. The following recommendations are provided for ground and aerial application of NATULAR 1EC.

**\* Ground Application**

Use conventional ground application equipment with enough water to provide uniform coverage of the target area. Use hand-pump, airblast, mist blower, etc. spray equipment. Apply at the designated rate for the targeted site.

**\* Spot Treatment**

Apply NATULAR 1EC as a spot treatment to areas where mosquitoes are breeding at rates appropriate for the treatment site habitat and conditions.

**\* Aerial Application**

NATULAR 1EC may be aerially applied either undiluted or diluted with water through fixed wing aircraft or helicopter with either conventional boom and nozzle systems or rotary atomizers. Use a nozzle configuration that produces a droplet size distribution that ensures droplet deposition in the targeted area. Apply at the designated rates for the targeted site.

**\* Application Sites and Rates**

The rates listed are typical for efficaciously killing mosquito and midge larvae in the listed habitat sites. NATULAR 1EC may be applied at rates up to 12.8 fl oz per acre in waters high in organic content (such as polluted water, sewage lagoons, animal waste lagoons, and waters with high concentrations of leaf litter or other organic debris), deep-water mosquito habitats or those with dense surface cover, and where monitoring indicates a lack of kill at typical rates. Do not re-apply within 7 days of the initial application unless monitoring indicates that larval populations have reestablished or weather conditions have rendered initial treatments ineffective. Do not apply to water intended for irrigation.

**For killing mosquito larvae species in the following non-crop sites:**

Non-Crop Site	NATULAR 1EC fl oz/acre (lb ai/acre)
<b>Temporary Standing Water</b> Woodland pools, snow pools, roadside ditches, retention ponds, freshwater dredge spoils, tire tracks and other natural or manmade depressions, rock holes, pot holes and similar areas subject to holding water	2.3 - 4 (0.018 - 0.033)
<b>Other Freshwater Sites</b> Natural and manmade aquatic sites, edges of lakes, ponds, canals, stream eddies, creek edges, detention ponds	
<b>Freshwater Swamps and Marshes</b> Mixed hardwood swamps, cattail marsh, common reed wetland, water hyacinth ponds, and similar freshwater areas with emergent vegetation	5.7 (0.045)
<b>Marine/Coastal Areas</b> Intertidal areas above the mean high water mark, mangroves, brackish water swamps and marshes, coastal impoundments and similar areas	
<b>Stormwater/Drainage Systems</b> Storm sewers, catch basins, drainage ditches, and similar areas	4 - 5.7 (0.033 - 0.045)
<b>Wastewater</b> Sewage effluent, sewers, sewage lagoons, cesspools, oxidation ponds, septic ditches and tanks, animal waste lagoons and settling ponds, livestock runoff lagoons, wastewater impoundments associated with fruit and vegetable processing, and similar areas	
<b>Dormant Rice Fields</b> Impounded water in dormant rice fields (for application only during the interval between harvest and preparation of the field for the next cropping cycle)	2.3 - 4 (0.018 - 0.033)
<b>Natural and Artificial Containers</b> Tree holes, bromeliads, leaf axils, and other similar natural water holding containers.  Cemetery urns, bird baths, flower pots, rain barrels, buckets, single tires, tires stockpiled in dumps, landfills, recycling plants and other similar areas, abandoned swimming pools, ornamental ponds, flooded roof tops and similar water holding sites.  Landfill containers, salvage yards, abandoned vehicles	2.3 - 5.7 (0.018 - 0.045)

**For killing mosquito larvae species in standing water within agricultural/crop sites where mosquito breeding occurs:**

Agricultural/Crop Site	NATULAR 1EC fl oz/acre (lb ai/acre)
Pastures/hay fields, rangeland, orchards, citrus groves	2.3 - 5.7 (0.018 - 0.045)

{Storage & Disposal statement for rigid, refillable container}

STORAGE AND DISPOSAL
<p>Do not contaminate water, food or feed by storage or disposal.</p> <p><b>Pesticide Storage:</b> Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.</p> <p><b>Pesticide Disposal:</b> Wastes resulting from the use of this product may be disposed of on site according to label use directions or at an approved waste disposal facility.</p> <p><b>Container Disposal:</b> Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container, before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.</p>

