

85004-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

3/31/2010

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

MAR 31 2010

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Susan MacIntosh  
Authorized Agent for Pasteuria Bioscience, Incorporated  
1203 Hartford Avenue  
Saint Paul, MN 55116-1622


Re: Product Name: Econem™  
EPA Reg. No.: 85004-2  
Your application dated February 17, 2010 to update the manufacturer/producer (i.e., new EPA Establishment Number) on both the label and confidential statement of formula (CSF) Decision #430560

Dear Ms. MacIntosh:

The Biopesticides and Pollution Prevention Division (BPPD) is in receipt of your application, as indicated above, for notification under Pesticide Registration (PR) Notice 98-10. A preliminary screen of this request has been conducted for its applicability under PR Notice 98-10, and it has been determined that the action requested falls within the scope of PR Notice 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Accepted" and will be placed accordingly in our records. Furthermore, the new CSF dated March 29, 2010 supersedes the previous CSF dated August 5, 2009 and will be filed in the Agency's records as the official CSF.

Questions concerning this action should be directed to Ms. Jeannine Kausch at (703) 347-8920 or email at [kausch.jeannine@epa.gov](mailto:kausch.jeannine@epa.gov).

Sincerely,

  
Sheryl K. Reilly, Ph.D., Chief  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)



CONCURRENCES

SYMBOL	7511P	7511P						
SURNAME	KAUSCH	Reilly						
DATE	03/31/2010	3/31/2010						

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

 <b>United States Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other</b>	OPP Identifier Number
<b>Application for Pesticide – Section I</b>			
1. Company/Product Number 85004-2		2. EPA Product Manager Sheryl Reilly, Ph.D.	
4. Company/Product (Name) Econem		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted PM# 92	
5. Name and Address of Application (Include ZIP Code) Pasteuria Bioscience, Incorporated 12085 Research Drive, Suite 185 Alachua, FL 32615 <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
<b>Section II</b>			
<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated <u>03/31/2010</u> <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other – Explain below.	
<b>Explanation:</b> Use additional page(s) if necessary. (For section I and Section II.) Notification of a new manufacturer (i.e., new EPA establishment number) per PR Notice 98-10. 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.			
<b>Section III</b>			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>* Certification must be submitted</b>		2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic (Bag) <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per Container		Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.    No. per container	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 50 pounds	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
<b>Section IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Susan MacIntosh		Title Regulatory Consultant for PBI Telephone No. (Include Area Code) 651-340-1262	
<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 Regulatory Consultant for PBI	
4. Typed Name Susan MacIntosh		5. Date 29 March 2010	

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## ECONEM™

Biological management of sting nematodes in turf

Active Ingredient:	<i>Pasteuria usgae</i> *	0.0020%
Other Ingredients:		99.9980%
Total:		100.0000%

\* Contains at least  $1 \times 10^4$  spores per g or  $4.5 \times 10^6$  spores per pound.

### KEEP OUT OF REACH OF CHILDREN CAUTION

See additional precautionary statements on the back panel

EPA Registration Number: 85004-2

EPA Est. Number: ~~70815-CA-001~~70051-CA-001

**Notification Accepted**

**Date:** 03/31/2010

**Reviewer:** J. KAUSCH

Manufactured for:

 **PASTEURIA**  
bioscience

12085 Research Dr., Suite 185  
Alachua, FL 32615  
(386) 462-0008  
[www.pasteuriabio.com/](http://www.pasteuriabio.com/)

Net Weight:

Batch Code:

Pasteuria Bioscience, Inc.

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March 29, 2010

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

FIRST AID	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time. After 4:30 pm Pacific Time, call your poison control center at 1-800-222-1222.	

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

The PPE requirements that follow apply to both Worker Protection Standard (WPS) uses (in general, agricultural-plant uses are covered under the Worker Protection Standard (40 CFR Part 170)) and Non-WPS uses.

Applicators and other handlers must wear:

- Protective eyewear

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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## **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not use this product until you have read the entire label.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box apply only to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours unless wearing the appropriate personal protective equipment.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water), is:

- Protective eyewear
- Coveralls
- Waterproof gloves
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until product has been integrated into soil through irrigation.

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## PRODUCT INFORMATION

This product contains a biological nematicide for the control of the following nematode for most turf grass uses:

**Sting Nematode**

*Belonolaimus longicaudatus*

## USE RESTRICTIONS

Consult your extension agent or manufacturing representative before mixing this product with fertilizer or seed. Do not mix this product with other turf grass pesticides.

## APPLICATION INSTRUCTIONS

**Turf Grass:** Apply 2 to 10 pounds of Econem™ per 1000 square feet of turf prior to, during, and after turf green-up in 3 to 4 week intervals using calibrated, standard granule application equipment such as a drop-spreader. For best control, a minimum of 3 sequential applications is required. For warm-season grasses, these green-up periods may be in early spring and again in late summer or early fall; for cool-season grasses, this may be late summer or early fall. Monthly applications throughout the year may help maintain sting nematode populations below economic threshold levels.

Use the higher application rates on sites with high sting nematode populations (greater than 60 sting nematodes per 0.4 cup (100 cm<sup>3</sup> of soil) or areas with extensive nematode damage such as bare turf areas, dying turf areas, or turf with root systems less than 0.8 – 1.2 inch (2 – 3 cm) in length.

Apply 0.10 inch water immediately following all applications. After application of Econem™ and subsequent treatment with water, minimizing irrigation for several weeks following treatment may improve sting nematode control. For areas under intense irrigation or experiencing excessive rainfall, repeat applications may be necessary to maintain sting nematode populations below an economic threshold.

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#### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

##### **PESTICIDE STORAGE**

Store in a cool, dry place. Reclose containers of unused portions of Econem.

##### **PESTICIDE DISPOSAL**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

##### **CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

#### **WARRANTY STATEMENT**

Pasteuria Bioscience, Incorporated (PBI) warrants that this product conforms to its label description and is suitable for its intended use if stored and used strictly in accordance with the Directions for Use under normal conditions of use. To the extent consistent with applicable law, PBI makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.