

100-913

09-30-2009

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



OFFICE OF
PREVENTION, PESTICIDES,
AND TOXIC SUBSTANCES

Sept 30, 2009

Mr. Pat Dinnen
Label Group Leader/Regulatory Affairs
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Subject: Endeavor
EPA Reg. No. 100-913
Notification Application Dated September 14, 2009

Dear Mr. Dinnen:

The Agency has received your Application for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4, dated September 14, 2009, for the product Endeavor, EPA Reg. No. 100-913. The Registration Division (RD) has reviewed this request and finds that the actions requested fall within the scopes of PR Notice 2007-4. 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) 308-8043.

Sincerely,

A handwritten signature in black ink that reads "Marianne Lewis". The signature is written in a cursive style with a large, sweeping initial "M".

Marianne Lewis
Insecticide-Rodenticide Branch
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number
Notification

Application for Pesticide - Section I

1. Company/Product Number 100-913	2. EPA Product Manager Herbert	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Endeavor	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. 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 _____	

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 label change per PR Notice 2007-4. This Notification is consistent with the guidance of PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or 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 the amended label is not consistent with the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156, 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.

Syngenta is amending the Storage and Disposal section of the label by Notification according to the directions stated in PR Notice 2007-4.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt. 2.5 oz.	No. per Container 6	If "Yes" Unit Packaging wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 15 oz.		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 type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input checked="" type="checkbox"/> Other Pressure Sensitive	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Pat Dinnen	Title Label Group Leader	Telephone No. (Include Area Code) 336-632-2494			
Certification 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 both under applicable law.					6. Date Application Received (Stamped)
2. Signature <i>Pat Dinnen</i>	3. Title Regulatory Specialist				
4. Typed Name Pat Dinnen	5. Date September 14, 2009				

NOTIFICATION

(BOOKLET)

SEP 30 2009

Endeavor®

Insecticide

For Professional Use Only (Not for application by homeowners)

For control of aphids and whiteflies on landscape ornamentals, field grown ornamentals, container grown ornamentals, nonbearing fruit and nut trees in nurseries, Christmas trees, ground covers, and ornamental plants in greenhouses, lath and shadehouses, and interiorscapes.

Active Ingredient:	
Pymetrozine (CAS No. 123312-89-0)	50.0%
Other Ingredients:	50.0%
Total:	100.0%

Endeavor® is a water-dispersible granule.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-913

EPA Est. 67545-AZ-1

Product of Switzerland

Formulated in the USA

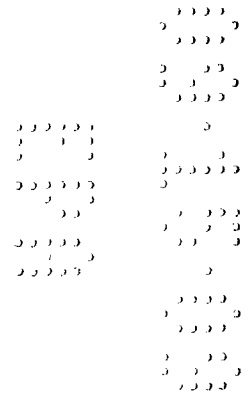
SCP 913B-L1E 0103

6 X 2.5 ounce packets

15 ounces

Total Net Weight Per Box

U.S. Standard Measure



Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton).
- Shoes plus socks

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

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft 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.

User Safety Recommendations

Users should:

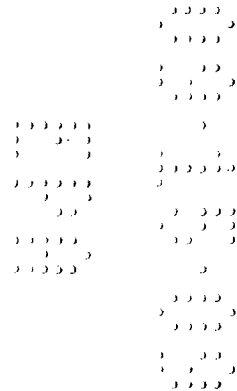
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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 wash water.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.



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 agency responsible for pesticide regulation.

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 only apply 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 12 hours.

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:

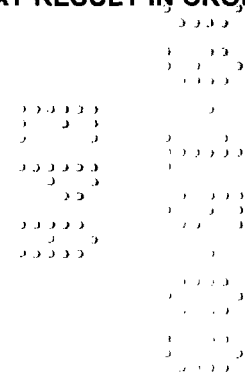
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton).
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product 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 product agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY AND/OR POOR INSECT CONTROL.



GENERAL INFORMATION

Endeavor is an insecticide that controls aphids and whiteflies on landscape ornamentals, field grown ornamentals, container grown ornamentals, nonbearing fruit and nut trees in nurseries, Christmas trees, ground covers, and ornamental plants in greenhouses, lath- and shade-houses and interiorscapes.

Mode of Action

Endeavor has a mode of action that controls aphids and whiteflies by stopping their feeding activity. These insects stop feeding within hours, but remain on the plant for a short time (2-4 days). Endeavor has residual activity in the plant and will control aphids and whiteflies that move onto the plant after spraying.

Suitability for Integrated Pest Management Programs

Endeavor is suitable for Integrated Pest Management (IPM) programs as it has a low toxicity to beneficial insect (including honeybees and bumblebees) and mite populations.

Use Restrictions

Do not apply aerially.

Do not apply more than 10 oz./A per application.

For outdoor use, do not apply more than 48 oz./A per year.

For indoor use, do not apply more than 100 oz. (48 oz. in CA only)/A per year.

Chemigation

Do not apply this product through any type of irrigation system.

Phytotoxicity

Endeavor has been evaluated for phytotoxicity on many greenhouse, nursery, and ornamental plants. All plants tested under university research and commercial production conditions have not shown phytotoxicity at labeled rates of Endeavor. While many species and cultivars have been tested, a small group of each specie and cultivar should be evaluated for phytotoxicity two weeks prior to making applications to the entire crop. Applications should not be made to poinsettia after bract formation.

Resistance Management

Endeavor belongs to a class of chemicals not previously used as pesticides and not known to be cross-resistant to other classes of insecticides. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating with insecticides with different modes of action. Consult your local pest control advisor or extension office for details. If resistance to this product develops in your area, it may not provide adequate control. If you experience difficulty with control, and resistance is a likely cause, consult your local Syngenta Crop Protection representative or local agricultural authorities for the best alternative method of control. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insect pests on this label.

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SPRAY EQUIPMENT

- Use sufficient water to provide thorough, uniform coverage.
- Use sprayer nozzles that provide accurate, uniform application.
- Calibrate sprayer to insure delivery of adequate spray volume per unit area.
- To avoid spray drift, do not apply when conditions favor drift beyond the target area.
- Avoid spray overlap, as crop injury may occur.

MIXING PROCEDURES

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Endeavor Alone: Add ½ of the required amount of water to the mix tank. With the agitator running, add the Endeavor to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Endeavor has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Endeavor + Tank Mixtures: Endeavor is compatible with most insecticide and fungicide products. However, the physical compatibility of Endeavor with tank mix partners should be tested before use. To determine the physical compatibility of Endeavor with other products, use a jar test.

Using a 1½ qt. jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

If mixture is physically compatible, add ½ of the required amount of water to the mix tank. Start the agitator before adding any tank mix partners. Add products in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as Endeavor, liquid flowables, liquids, and emulsifiable concentrates.

Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all the mixture has been applied.

Note: If using Endeavor in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Endeavor. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using Endeavor in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

APPLICATION DIRECTIONS

When target pests appear and conditions do not favor drift beyond the target area, apply foliar spray mixture uniformly to all plant surfaces, particularly the stem and leaf undersides, to point of runoff. Avoid spray overlap that could cause phytotoxicity. Use the following rates and retreatment intervals.

Pests	Type of Application & Sites	Application Rates for Endeavor	Retreatment Intervals
Whiteflies, including Silverleaf whitefly (<i>Bermisia argentifolii</i>) Greenhouse Whitefly (<i>Trialeurodes vaporariorum</i>) Aphids including: Green Peach Aphid (<i>Myzus persica</i>) Melon Aphid (<i>Aphis gossypii</i>)	Ground Foliar Spray Ornamentals	2.5-5.0 oz./100 gals. water Maximum rate of 10 oz./A	7-days-severe insect pressure 14-days-normal insect pressure

Note: On hard to wet plants, add a nonionic or organosilicone-based surfactant to improve coverage. Follow product's use directions and rate recommendations.

Restrictions

Do not apply more than 10 oz./A per application.

For outdoor use, do not apply more than 48 oz./A per year.

For indoor use, do not apply more than 100 oz./A per year.

In CA only: For indoor use, do not apply more than 48 oz./A per year.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original container, in a cool, dry place inaccessible to children and pets. Product is hydroscopic. Keep the container tightly closed.


For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal Handling

Non-refillable 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, by incineration, or, if by other procedures allowed by state and local authorities, by burning. If burned, stay out of smoke.

Endeavor the Syngenta logo, and the CP FRAME  are trademarks of a Syngenta Group Company
U.S. Patent No. 5,153,200

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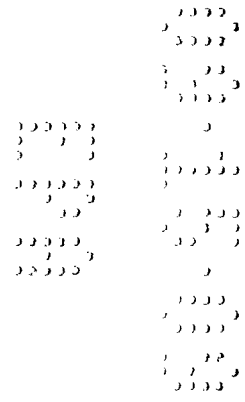
For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Product of Switzerland

Formulated in the USA

Manufactured for;
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300
www.syngenta-us.com

SCP 913B-L1E 0103



(Non-Detachable Container Label)

Endeavor®

Insecticide

For Professional Use Only

For control of aphids and whiteflies on landscape ornamentals, field grown ornamentals, container grown ornamentals, nonbearing fruit and nut trees in nurseries, Christmas trees, ground covers, and ornamental plants in greenhouses, lath and shadehouses and interiorscapes.

Active Ingredient:

Pymetrozine: (CAS No. 123312-89-0) 50.0%

Other Ingredients: 50.0%

Total: 100.0%

Endeavor® is a water-dispersible granule.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and Directions for Use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-913

EPA Est. 67545-AZ-1

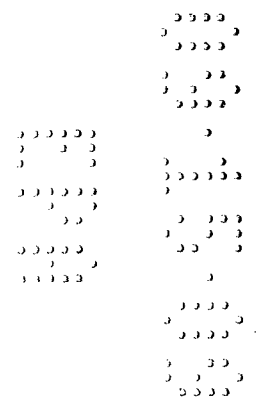
SCP 913B-L1E 0103

6 X 2.5 ounce packets

15 ounces

Total Net Weight Per Box

U.S. Standard Measure



Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • 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 the 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.	
<p align="center">HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372</p>	

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 wash water.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.

Storage and Disposal

Pesticide Storage

Store in original container in a cool, dry place inaccessible to children and pets. For minor spills, see booklet label.

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Pesticide Disposal

See booklet label.

Container Disposal Handling

Non-refillable 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, by incineration, or, if by other procedures allowed by state and local authorities, by burning. If burned, stay out of smoke.

Chemigation

Do not apply this product through any type of irrigation system.

Endeavor® and the Syngenta logo are trademarks of a Syngenta Group Company
U.S. Patent No. 5,153,200

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Manufactured for :
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419- 8300
www.syngenta-us.com

SCP 913B-L1E 0103

END 913 BL1E 0103- Ig- 10-11-07
END 913 BL1E 0103 PRN2007-4 NOTIF-SEP2009 - pl - 9/14/09

