

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Dr. Robert Hamilton Senior Regulatory Scientist Registration and Regulatory Affairs Valent U.S.A. Corporation 1101 14<sup>th</sup> Street, NW Suite 1050 Washington, DC 20005

MAR 2 8 2011

Subject: Label Notification per PR Notice 98-10 Esteem Ant Bait EPA Reg. No. 59639-114

Dear Dr. Hamilton,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated December 27, 2010 for the product, Esteem Ant Bait, EPA Reg. No. 59639-114. 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 (have) been stamped "Notification" and will be placed in our records.

If you have any questions, please call Kevin Sweeney at (703) 305-5063.

to.

Richard Gebren Product Manager 10

Registration Division (7505P) Office of Pesticide Programs

Enclosure

Please read instructions on reverse before comple form.	Form Approved, Ohip No. 2070-0060		
United States Environmental Protection Age Washington, DC 20460	Registration Amendment  Other		
Application for	Pesticide - Section I		
1. Company/Product Number 59639-114	2. EPA Product Manager Mr. Richard Gebkin		
4. Company/Product (Name) —Esteem-Ant-Bait-(Insect Growth-Regulator)	PM# X None Restricted		
5. Name and Address of Applicant (Include ZIP Code)  Valent U.S.A. Corporation  1600 Riviera Ave., Suite 200  Walnut Creek, CA 94596  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 identified proposition and labeling to:  EPA Reg. No.  Product Name		
Sec	tion - II		
Amendment - Explain below.  Resubmission in response to Agency letter dated  Notification - Explain below.  Explanation: Use additional page(s) if necessary. (For section I and Section III)	Final printed labels in response to Agency letter dated "Me Too" Application.  Other - Explain be		
Add optional language to restrict certain uses in the state of California			
	tion - III		
Yes Yes X No X X No X X  * Certification must Unit Packaging wat, container Packaging wat.	Soluble Packaging  Yes  No  Soluble Packaging  2. Type of Container  Metal  Plastic  Glass  Paper  Ge wgt container  Other (Specify)		
be submitted			
3. Location of Net Contents Information 4. Size(s) Retail Conta	5. Location of Label Directions On Label On Labeling accompanying product		
6. Manner in Which Label is Affixed to Product    X   Lithograph   Paper glued   Stenciled	Other ceeccc		
Section - IV			
1. Contact Point   Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Robert L. Hamilton Title Sr. Regulatory Scientist (202) 872-46ଟ2 ୍ଡ			
Certification    Certify that the statements   have made on this form and all attachments thereto are true, accurate and complete.   Lacknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.    Certification   Certification			
2. Signature 3. Title Manage	er, Label & States Affairs Group		

5. Date

December 27, 2010

Valent U.S.A. Corporation Registration & Regulatory Affairs 1101 14<sup>th</sup> St., NW suite 1050 Washington, DC 20005 (202) 872-4688



December 27, 2010

Esteem Ant Bait (Insect Growth Regulator) EPA Reg. No. 59639-114 NOTIFICATION

Mr. Richard J. Gebken PM 10 Document Processing Desk (NOTIF) Office of Pesticide Programs US Environmental Protection Agency (7504P) Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

ATTENTION:

Mr. Kevin Sweeney

Dear Mr. Gebken,

Valent USA Corporation would like to submit a notification to the Agency as permitted under PR-Notice 98-10, Section II, N, Other Revisions, as follow:

 On pages 17 and 18, add optional language [in brackets] to exclude the use on certain berries and legume vegetables in the state of California.

Please find enclosed the following supporting documents for this notification:

- 1. Application for registration (EPA Form 8570-1)
- 2. Certification statement with respect to PR-Notice 98-10
- 3. One (1) red line label copy of proposed product labeling.
- 4. One (1) clean copy of the proposed product labeling.

If you have questions please contact me in the Washington, DC Office at (202) 872-4682 or by email: robert.hamilton@valent.com

Sincerely yours,

Robert L. Hamilton, Ph.D.

Senior Regulatory Scientist

Registration & Regulatory Affairs

Enclosures



December 27, 2010

Esteem Ant Bait (Insect Growth Regulator) EPA Reg. No. 59639-114 NOTIFICATION

### **CERTIFICATION STATEMENT WITH RESPECT TO 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."

Robert L. Hamilton, Ph.D. Senior Regulatory Scientist

Registration & Regulatory Affairs



## MAR 2 8 2011

GROUP 76 INSECTICIDE

[MASTER LABEL]

[Bracketed information is optional text].

# **ESTEEM® ANT BAIT** (Insect Growth Regulator)

Active Ingredient	By Wt.
*Pyriproxyfen*	0.50%
Other Ingredients	99.50%
Total	

\*2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine

### **KEEP OUT OF REACH OF CHILDREN**

### **CAUTION**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS:

NET CONTENTS \_\_\_\_ POUNDS

### [Sub Label 1]

ESTEEM ANT BAIT (Insect Growth Regulator)
For use on Ornamental and Nursery Crops



GROUP 76 INSECTICIDE

# ESTEEM® ANT BAIT (Insect Growth Regulator)

Active Ingredient	By Wt.
*Pyriproxyfen	0.50%
Other Ingredients	
Total	100.00%

<sup>\*2-[1-</sup>methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine

**KEEP OUT OF REACH OF CHILDREN** 

### **CAUTION**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS \_\_\_\_ POUNDS

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin, inhaled or swallowed. Causes moderate eye irritation. Avoid contact with skin, clothing or eyes. Avoid breathing dust.

### **FIRST AID**

### If on skin:

- 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:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further 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.

### 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.

### **HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:** long-sleeved shirt, long pants, waterproof gloves and socks plus shoes.

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

### **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.
- 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:**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

### **DIRECTIONS FOR USE**

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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: coveralls over long-sleeved shirt and long pants, waterproof gloves and socks plus shoes.

### 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 produce agricultural plants on farms, forests, nurseries or greenhouses.

For other uses, do not enter treated areas until any dusts have settled.

### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product; Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

### **RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

### LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

### LIMITATION OF LIABILITY

To the fullest extent allowed by law, shall Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

#### PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

### NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer**, **Risks of Using This Product**, **Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

#### **TANK MIXES**

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management purposes, Esteem® Ant Bait is a group 7C insecticide. Any insect population may contain individuals naturally resistant to *Esteem* Ant Bait and other 7C insecticides. The resistant individuals dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by *Esteem* Ant Bait or other 7C group insecticides, although local experts should be consulted for local resistance recommendations. The classification scheme is based on mode of action. It is recognized that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioral changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable management technique.

To delay insecticide resistance

- · Avoid exclusive repeated use of insecticides from the same chemical subgroup.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.

For further information contact your local distributor.

### **GENERAL INFORMATION**

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

Esteem Ant Bait is an Insect Growth Regulator similar to naturally occurring insect growth hormones which interfere with (stops) their growth or development. Esteem Ant Bait breaks the reproductive life cycle of the ants, causing starvation of the colony. Esteem Ant Bait is a slow acting, highly effective ant control product. Worker ants pick up the bait granules and take them back to the colony. Workers feed the bait to both the queen and the immature ants thereby preventing worker replacement. Due to degeneration of reproductive organs, the ant queen cannot replace workers. The lack of worker ant replacement results in colony death as the existing worker ants age and die. Within 3 to 4 weeks there is substantial colony mortality and within 8 weeks the majority of the colony population has been eliminated.

### WHERE TO USE

For best results, follow directions for specific use areas.

- This product may be used in the following areas: Indoor and outdoor container or field grown ornamentals in commercial nurseries (including trees, shrubs, flowers, evergreens, foliage plants and ground covers); ornamental tree farms; conifers and conifer nurseries; sod farms.
- Bearing and non-bearing fruit and nut trees in commercial nurseries and tree farms.
- Residential/domestic sites, defined as areas associated with the household or home life; including, but not limited to, apartment complexes, condominiums and patient care areas of nursing homes, mental institutions, hospitals or convalescent homes.
- Uncultivated, non-agricultural areas, including airports, roadsides, highway rights-of-way, utility rights-of-way, campgrounds and industrial sites.
- Institutional sites defined as areas around properties or facilities providing a service to public or private organizations including, but not limited to, hospitals, nursing homes, schools, universities, colleges, museums, libraries, sport facilities, golf courses and office buildings.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Ants Bigheaded Ant Imported Fire Ant Native Fire Ant Pavement Ant Red Imported Fire Ant Southern (California) Fire Ant	Broadcast 1.0 to 1.5 lbs  Individual Mound Treatment 1 to 4 level Tbsp	Broadcast or Aerial Application: Apply uniformly with ground or aerial equipment calibrated to give the correct dosage. Repeat after 12 to 16 weeks if needed.  WHEN TO APPLY Apply Esteem Ant Bait in the early Spring or Summer at the first sign of ant activity. Applications may be made any time of the day but are more effective when ants are actively foraging, usually when the soil temperature is above 60° F. Avoid application if rain is expected within 4 to 6 hours. Do not water treated area for 24 hours after application. In the event of prolonged rains after initial treatment, reapplication may be necessary.  Fall applications of Esteem Ant Bait may also be made and will provide extended control into the next season. Make applications before soil temperature falls below 60° F.  A second application of Esteem Ant Bait may be advisable after 12 to 16 weeks in areas of heavy infestations, or when the mounds remain active, or when a reinfestation occurs. In large mounds, some worker ants may persist for a while after the queen is dead. For 7 to 10 days after treatment, do not apply any other ant pesticide. This is to allow sufficient time for the worker ants to seek out the bait and take it back to the mound. After 14 days, it may be desirable to apply a registered ant pesticide to kill remaining foraging ants.  In areas with heavy infestations of ants, individual mounds may be treated with a contact insecticide after a broadcast application of Esteem Ant Bait. Wait at least 7 to 10 days after application, and then apply Orthene® Turf Tree & Ornamental Spray to individual mounds according to the label.  Individual Mound Treatment  Do not disturb the mound. Do not apply to top of mounds. Apply 1 to 4 level Tbsp of Esteem Ant Bait per mound, uniformly distributing material 3 to 4 ft. around the mound. Repeat after 12 to 16 weeks if needed.

### STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Not for storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Copyright<sup>©</sup> 2010 by Valent U.S.A. Corporation

*Esteem* is a registered trademark of Valent U.S.A. Corporation Orthene is a registered trademark of OMS Investments, Inc.

Manufactured for: **Valent U.S.A. Corporation** P.O. Box 8025 Walnut Creek, CA 94596-8025 www.valentpro.com

Made in U.S.A.

EPA Reg. No.	59639-114
EPA Est. No.	

059639-00114.20101227.EAB. NOTIF

### [Sub Label 2]

ESTEEM ANT BAIT (Insect Growth Regulator)
For use on Agricultural Turf and Food Crops



GROUP 76 INSECTICIDE

[Bracketed information is optional text].

# **ESTEEM®** ANT BAIT (Insect Growth Regulator)

Active Ingredient	By Wt.
*Pyriproxyfen	0.50%
Other Ingredients	99.50%
Total	100.00%

<sup>\*2-[1-</sup>methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine

### **KEEP OUT OF REACH OF CHILDREN**

### **CAUTION**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS \_\_\_\_ POUNDS

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin, inhaled or swallowed. Causes moderate eye irritation. Avoid contact-with-skin, clothing-or-eyes. Avoid breathing dust.

### **FIRST AID**

If on skin:

- · 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:

- · Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

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### 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.

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.

### **HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:** long-sleeved shirt, long pants, waterproof gloves and socks plus shoes.

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

### **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.
- 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:**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

### **DIRECTIONS FOR USE**

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READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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.

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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: coveralls over long-sleeved shirt and long pants, waterproof gloves and socks plus shoes.

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#### I IMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

### LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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#### **TANK MIXES**

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law

Read and follow the entire label of each product to be used in the tank mix with this product.

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For resistance management purposes, Esteem® Ant Bait is a group 7C insecticide. Any insect population may contain individuals naturally resistant to *Esteem* Ant Bait and other C insecticides. The resistant individuals dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by *Esteem* Ant Bait or other 7C group insecticides, although local experts should be consulted for local resistance recommendations. The classification scheme is based on mode of action. It is recognized that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioral changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable management technique.

To delay insecticide resistance

- Avoid exclusive repeated use of insecticides from the same chemical subgroup.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.

For further information contact your local distributor.

### **GENERAL INFORMATION**

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

Esteem Ant Bait is an Insect Growth Regulator similar to naturally occurring insect growth hormones which interfere with (stops) their growth or development. Esteem Ant Bait breaks the reproductive life cycle of the ants, causing starvation of the colony. Esteem Ant Bait is a slow acting, highly effective ant control product. Worker ants pick up the bait granules and take them back to the colony. Workers feed the bait to both the ant queen and the immature ants thereby preventing worker replacement. Due to degeneration of reproductive organs, the queen cannot replace workers. The lack of worker ant replacement results in colony death as the existing worker ants age and die. Within 3 to 4 weeks there is substantial colony mortality and within 8 weeks the majority of the colony population has been eliminated.

### **NON CROP AREAS**

Agricultural sites, defined as areas associated with the farm, such as: The areas around farm houses, barns, agricultural equipment and farm irrigation equipment.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Ants Big-Headed Ant Imported Fire Ant Native Fire Ant Pavement Ant	1.0 to 2.0 lbs	Broadcast or Aerial Application: Apply uniformly with ground or aerial equipment calibrated to give the correct dosage. Repeat after 12 to 16 weeks if needed.
Red Imported Fire Ant Southern (California) Fire Ant		WHEN TO APPLY Apply Esteem Ant Bait in the early Spring or Summer at the first sign of ant activity. Applications may be made any time of the day but are more effective when ants are actively foraging, usually when the soil temperature is above 60° F. Avoid application if rain is expected within 4 to 6 hours. Do not water treated area for 24 hours after application. In the event of prolonged rains after initial treatment, reapplication may be necessary.
		A second application of <i>Esteem</i> Ant Bait may be advisable after 12 to 16 weeks in areas of heavy infestations, or when the mounds remain active, or when a reinfestation occurs. In large mounds, some worker ants may persist for a while after the queen is dead. For 7 to 10 days after treatment, do not apply any other ant pesticide. This is to allow sufficient time for the worker ants to seek out the bait and take it back to the mound. After 14 days, it may be desirable to apply a registered ant pesticide to kill remaining foraging ants.
i		Individual Mound Treatment: Apply 2 to 4 level Tbsp of Esteem Ant Bait per mound, uniformly distributing material 3 to 4 ft around the mound. Do not disturb the mound. Do not apply to top of mounds. Repeat after 12 to 16 weeks if needed.

### **FOOD AND FEED CROPS**

	FOOD AND FEE		
		PRODUCT	
CROPS	PESTS	RATES	SPECIAL INSTRUCTIONS
F 0 0		PER ACRE	Donald and a second as the sec
For Crop Groups (See Crop	Ants	1.5 to 2.0 lbs	Broadcast or Aerial Application:
	Big-Headed Ant		Apply uniformly with ground or
Berries[1]	Imported Fire Ant Native Fire Ant		aerial equipment calibrated to give
Brassica Leafy Vegetables			the correct dosage. Repeat after 12
Bulb Vegetables	Pavement Ant		to 16 weeks if needed.
Cereal Grains	Red Imported Fire Ant		
Citrus Fruits	Southern (California) Fire Ant		WHEN TO APPLY
Cucurbits	Fire Ant		Apply Esteem Ant Bait in the early
Foliage of Legume			Spring or Summer at the first sign
Vegetables Fruiting Vegtables			of ant activity. Applications may be
			made any time of the day but are more effective when ants are
Leafy Vegetables (Except			
Brassica Vegetables) Leaves of Root and Tuber			actively foraging, usually when the soil temperature is above 60° F.
Vegetables			Avoid application if rain is expected
Legume Vegetables			within 4 to 6 hours. Do not water
(Succulent or Dried)[2]			treated area for 24 hours after
Nongrass Animal Feeds			application. In the event of
Pome Fruit			prolonged rains after initial
Root and Tuber Vegetables			treatment, reapplication may be
Small Fruit Vine Climbing			necessary.
Crops (Except Grape)			11000004.71
Stone Fruits			A second application of Esteem Ant
Tree Nuts			Bait may be advisable after 12 to 16
Tropical & Subtropical Fruits			weeks in areas of heavy
,			infestations, or when the mounds
Individual Crops:	•		remain active, or when a
Artichoke (Globe)			reinfestation occurs. In large
Asparagus			mounds, some worker ants may
Banana			persist for a while after the queen is
Cacao Bean			dead. For 7 to 10 days after
Canola			treatment, do not apply any other
Coffee			ant pesticide. This is to allow
Cotton			sufficient time for the worker ants to
Cranberry			seek out the bait and take it back to
Dates			the mound. After 14 days, it may be
Figs			desirable to apply a registered ant
Grape	!		pesticide to kill remaining foraging
Olives		i	ants.
Pasture Grass			Peering Almand Timings Is
Paw Paw			Bearing Almond Timing: In
Peanuts			bearing almond orchards apply at 6
Pineapple			to 8 weeks prior to harvest to protect fallen nuts. Repeat after 12
Plantain Pomegrapate			to 16 weeks if needed.
Pomegranate			to to weeks it needed.
Rangeland Safflower			Individual Mound Treatment:
Sesame			Apply 2 to 4 level Tbsp of Esteem
Strawberry			Apply 2 to 4 level 1 bsp of Esteem  Ant Bait per mound, uniformly
Sugarcane	ĺ		distributing material 3 to 4 ft around
Tea			the mound. Do not disturb the
Ugli Fruit			mound. Do not apply to top of
Watercress			mounds. Repeat after 12 to 16
White Sapote			weeks if needed.
Time Superio			moono ii noodod.

[¹Specific berries not for use in California]

[2 CA only: not for use on soybeans]

- For all crops except Pasture Grass and Rangeland do not apply within 24 hours of harvest.
- For Pasture Grass and Rangeland the Pre-Harvest Interval (PHI) is zero (0) days.
- For Pasture Grass and Rangeland: Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Regardless of formulation, the maximum amount of pyriproxyfen that may be applied per acre per season is as follows:

For Cacao Bean, Canola, Cereal Grains, Coffee, Dates, Nongrass Animal Feeds, Peanuts, Safflower, Sesame, Sugarcane, Tea, do not exceed 0.040 lb pyriproxyfen per acre per season.

For Fig, do not exceed 0.043 lb pyriproxyfen per acre per season.

For Cotton, do not exceed 0.067 lb pyriproxyfen per acre per season.

For Leaves of Root and Tuber Vegetables and Root and Tuber Vegetables, do not exceed 0.109 lb Pyriproxyfen per acre per season.

For Artichoke, Asparagus, Banana, Brassica Leafy Vegetables, Bulb Vegetables, Citrus, Cucurbits, Foliage of Legume Vegetables, Fruiting Vegetables, Leafy Vegetables (Except Brassica Vegetables), Legume Vegetables (Succulent and Dried), Pasture Grass, Pineapple, Plantain, Pomegranate, Rangeland, Strawberry, Ugli Fruit, Watercress, White Sapote, do not exceed 0.134 lb pyriproxyfen per acre per season.

For Berries, Cranberry, Grapes, Olives, Pome Fruits, Small Fruit Vine Climbing Crops (Except Grape), Tree Nuts, Tropical & Subtropical Fruits, do not exceed 0.218 lb pyriproxyfen per acre per season.

For Paw Paw, Stone Fruits, do not exceed 0.327 lb pyriproxyfen per acre per season.

### **CROP GROUP DESCRIPTIONS**

**Berries** – **Crop Group 13:** Bingleberry[¹] ,Blackberry[¹] ,Blueberry, Boysenberry[¹], Currant, Dewberry[¹], Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Loganberry[¹], Lowberry[¹], Marionberry[¹], Olalliberry[¹], Raspberry (black and red) [¹], Salal, Youngberry[¹]

Brassica Leafy Vegetables – Crop Group 5: Broccoli, Broccoli Raab (rapini), Brussels Sprouts, Cabbage, Cauliflower, Cavalo Broccolo, Chinese Broccoli (gailon), Chinese Cabbage (bok choy and napa), Chinese Mustard (gai choy), Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens

**Bulb Vegetables** – **Crop Group 3:** Dry Bulb Onion, Garlic, Great Headed Garlic, Green Onion, Leek, Shallot, Welsh Onion

**Cereal Grains** – **Crop Group 15:** Barley, Corn Buckwheat, Pearl Millet, Proso Millet, Oats, Popcorn, Rice, Rye, Sorghum, Teosinte, Triticale, Wheat, Wild Rice

Citrus Fruits – Crop Group 10: Calamondin, Citrus Citron, Chironja, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange, Sour and Sweet; Pummelo, Satsuma Mandarin, Tangelo, Tangor

Cucurbits – Crop Group 9: Balsam Apple, Balsam Pear, Bitter Melon, Cantaloupe, Chayote, Chinese Cucumber, Chinese Waxgourd, Citron Melon, Cucumber, Edible Gourd, Gherkin, *Momordica* spp., Muskmelon, Pumpkin, Summer Squash, Watermelon, Winter Squash

**Foliage of Legume Vegetables** – **Crop Group 7:** Plant parts of any legume vegetable included in the legume vegetables that will be used as animal feed. Any cultivar of bean (*Phaseolus*) field pea (*Pisum*).

Fruiting Vegtables (Except Cucurbits) – Crop Group 8: Eggplant, Ground Cherry, Okra, Pepino, Pepper, Tomatillo, Tomato

Leafy Vegetables (Except Brassica Vegetables) – Crop Group 4: Amaranth (Chinese Spinach); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, Edible-leaved; Chrysanthemum, Garland; Corn Salad; Cress, Garden; Cress, Upland; Dandelion; Dock (Sorrel); Endive (Escarole); Fennel, Florence; Lettuce, Head and Leaf; Orach; Parsley; Purslane, Garden; Purslane, Winter; Radicchio (Red Chicory); Rhubarb; Spinach; Spinach, New Zealand; Spinach, Vine; Swiss Chard

Leaves of Root and Tuber Vegetables (Human Food or Animal Feed) - Crop Group 2: Beet, Garden; Beet, Sugar; Burdock, Edible; Carrot; Cassava (Bitter and Sweet); Celeriac; Chervil; Turnip-rooted; Chicory; Dasheen (taro); Parsnip; Radish; Radish, Oriental (daikon); Rutabaga; Salsify, Black; Sweet Potato; Tanier; Turnip; Yam, True Legume Vegetables (Succulent or Dried) — Crop Group 6: Bean (Lupinus spp.) includes Grain Lupin, Sweet Lupin, White Lupin and White Sweet Lupin; Bean (Phaseolus spp.) includes Field Bean, Kidney Bean, Lima Bean, Navy Bean, Pinto Bean, Runner Bean, Snap Bean, Tepary Bean, Wax Bean; Bean (Vigna spp.) includes Adzuki Bean, Asparagus Bean, Blackeyed pea, Catjang, Chinese Longbean, Cowpea, Crowder pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean, Yardlong Bean; Broad Bean (Fava); Chickpea (Garbanzo); Guar; Jackbean; Lablab Bean; Lentil; Pea (Pisum spp.) includes Dwarf Pea, Edible-podded Pea, English Pea, Field Pea, Garden Pea, Green Pea, Snow Pea, Sugar Snap Pea; Pigeon Pea; Soybean[2], Sword Bean

[<sup>1</sup>Specific berries not for use in California] [<sup>2</sup> CA only: not for use on soybeans]

Nongrass Animal Feeds (Forage, Fodder, Straw and Hay) – Crop Group 18: Alfalfa, Clover, Crown Vetch, Kudzu, Lespedeza, Lupin, Milk Vetch, Sainfoin, Trefoil, Velvet Bean, Vetch

**Pome Fruits – Crop Group 11:** Apple, Crabapple, Loquat, Mayhaw, Oriental Pear, Pear. Quince

Root and Tuber Vegetables - Crop Group 1: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Bean Yam, Beet (garden and sugar), Black Salsify, Carrot, Cassava (bitter and sweet), Celeriac, Chaoyote (root), Chicory, Chufa, Dasheen (taro), Edible Burdock, Edible Canna, Ginger, Ginseng, Horseradish, Leren, Oriental Radish, Parsnip, Potato, Radish, Rutabaga, Salsify, Spanish Salsify, Skirret, Sweet Potato, Tanier, True Yam, Turmeric, Turnip, Turnip-rooted Chervil, Turnip-rooted Parsley Small Fruit Vine Climbing Crops (Except Grape) – Crop Group 13-07E: Amur River Grape; Gooseberry; Kiwifruit, Fuzzy; Kiwifruit, Hardy; Maypop; Schisandra Berry; Cultivars, varieties and/or hybrids of these

Stone Fruits – Crop Group 12: Apricot, Cherry, Sweet & Tart, Chickasaw Plum, Damson Plum, Fresh Prune, Japanese Plum, Nectarine, Peach, Plum, Plumcot, Prune Tree Nuts – Crop Group 14: Almond, Beechnut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Macadamia Nut, Pecan, Pistachio, Walnut

**Tropical & Subtropical Fruits:** Acerola, Atemoya, Avocado, Biriba, Black Sapote, Canistel, Cherimoya, Custard Apple, Feijoa, Guava, Ilama, Jaboticaba, Longan, Lychee, Mamey Sapote, Mango, Passionfruit, Papaya, Pulasan, Rambutan, Sapodilla, Soursop, Spanish Lime, Star Apple, Starfruit, Sugar Apple, Wax Jambu

### **TURFGRASS AND SOD FARMS**

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Turfgrass and Sod Farms	Big-Headed Ant Imported Fire Ant Native Fire Ant Pavement Ant Red Imported Fire Ant Southern (California) Fire Ant	1.5 to 2.0 lbs	Broadcast or Aerial Application: Apply uniformly with ground or aerial equipment calibrated to give the correct dosage. Repeat after 12 to 16 weeks if needed.  WHEN TO APPLY Apply Esteem Ant Bait in the early Spring or Summer at the first sign of ant activity. Applications may be made any time of the day but are more effective when ants are actively foraging, usually when the soil temperature is above 60° F. Avoid application if rain is expected within 4 to 6 hours. Do not water treated area for 24 hours after application. In the event of prolonged rains after initial treatment, reapplication may be necessary.  A second application of Esteem Ant Bait may be advisable after 12 to 16 weeks in areas of heavy infestations, or when a reinfestation occurs. In large mounds, some worker ants may persist for a while after the queen is dead. For 7 to 10 days after treatment, do not apply any other ant pesticide. This is to allow sufficient time for the worker ants to seek out the bait and take it back to the mound. After 14 days, it may be desirable to apply a registered ant pesticide to kill remaining foraging ants.  Individual Mound Treatment: Apply 2 to 4 level Tbsps of Esteem Ant Bait per mound, uniformly distributing material 3 to 4 ft around the mound. Do not disturb the mound. Do not apply to top of mounds. Repeat after 12 to 16 weeks if needed.

### STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Not for storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

### **PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Manufactured for: **Valent U.S.A. Corporation** P.O. Box 8025 Walnut Creek, CA 94596-8025 <u>www.valent.com</u>

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