

59639-115

11/06/2000

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

59639-
115

Date of Issuance:

NOV 6 2000

NOTICE OF PESTICIDE:

 x Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

ESTEEM 35 WP Insect
Growth Regulator

Name and Address of Registrant (include ZIP Code):

Valent USA Corporation
1333 N. California Blvd. Suite 600
Walnut Creek, CA 94596

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 59639-115".

3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Marion J. Johnson, Jr.

Date:

November 6, 2000

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ESTEEM[®] 35 WP

INSECT GROWTH REGULATOR

Active Ingredient	By Wt.
Pyriproxyfen (2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy]pyridine)	35.0%
Other Ingredients	<u>65.0%</u>
Total	100.0%

ESTEEM 35 WP Insect Growth Regulator is a wettable powder formula containing 35% active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 5 OUNCES

ACCEPTED
with COMMENTS
In EPA Letter Dated:
NOV - 6 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
extended, for the pesticide
registered under EPA Reg. No.
59639-115

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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

FIRST AID

If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • 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 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 by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • 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. Emergency Information - call 1-800-892-0099.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

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.

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.

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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 by cleaning of equipment washwaters or rinsate. Avoid direct application and/or spray drift to bee hives.

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.

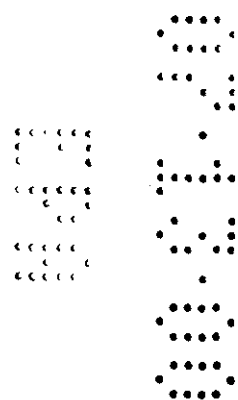
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.



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**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 AND 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. EXCEPT 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

In no event shall Valent or Seller be 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. 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

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.

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.

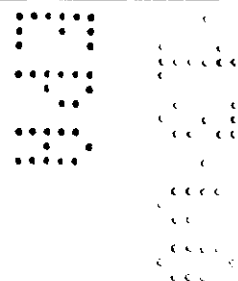
TANK MIXES

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.

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

TABLE OF EQUIVALENTS

RATES OF ESTEEM 35 WP PER ACRE	# OF WATER SOLUBLE PACKETS TO TREAT 5.0 ACRES
3 oz.	3
4 oz.	4
5 oz.	5



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GENERAL INFORMATION

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

ESTEEM 35 WP is intended for use in Insect Pest Management (IPM) or Insect Resistance Management (IRM) programs. ESTEEM 35 WP will not control insect adults, and it is recommended to be used in combination and/or rotation with other IPM or IRM materials. Contact your local state extension service for details.

ESTEEM 35 WP acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

APPLE

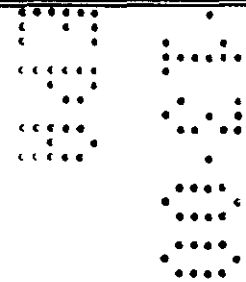
GENERAL

ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Apple	Codling Moth Suppression of: Leafroller Pandemis Oblique Banded	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>1st Generation Codling Moth: Apply at Biofix plus 100 degree days (this is usually close to petal fall). Make a second application 14 to 21 days later. For additional generations apply other insecticides registered for Codling Moth control. The addition of oil at 1 to 2% has been shown to increase codling moth activity of ESTEEM 35 WP. Follow local recommendations regarding in season use and rates of oil in your area.</p> <p>Oblique Banded Leafroller: Apply as the overwintering larvae become active (timing will depend upon location but is usually between tight cluster and petal fall tree growth stage). ESTEEM 35 WP does not directly control the larvae but inhibits normal pupation and adult emergence.</p>

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CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Apple (Cont.)	San Jose Scale	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>Apply at delayed dormant through pink. For delayed dormant use a superior spray oil at the manufacturer's recommended rate of oil. Under heavy scale pressure, use the higher rate of ESTEEM 35 WP.</p> <p>Scale: For control in season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve control. Follow local recommendations regarding in season use and rates of oil in your area.</p>
	Leafminer Spotted Tentiform Western Tentiform Aphid Rosy Apple Spirea Green Apple	3 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>Leafminers: Apply at peak moth flight for control of 1st or 2nd generation. This usually occurs at Pre-pink to Pink apple stage for 1st generation and 2nd cover for 2nd generation.</p> <p>Rosy Apple Aphid: Apply at delayed dormant.</p> <p>Spirea & Green Apple Aphid: Apply when aphids first appear, but before aphids are colonized.</p> <p>TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL.</p>
<p>ESTEEM 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local IPM programs and resistance management programs.</p> <ul style="list-style-type: none"> • Do not apply within 45 days of harvest. • Do not exceed two ESTEEM 35 WP applications per growing season. • Do not exceed 10 oz. of ESTEEM 35 WP per acre per season. • Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. 			



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PEAR

GENERAL

ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Pear	Pear Psylla	4 to 5 oz.	<p>Apply with ground equipment in 75 to 400 gals./A with a superior spray oil at manufacturer's recommended rates for the stage of growth.</p> <p>Apply a single application during the delayed dormant to "pink stage" of growth at 5 oz./A or make two applications from delayed dormant through "petal fall" stage of growth at 4 to 5 oz./A. Make application just before sustained egg lay is anticipated.</p> <p>It is essential to use adequate water volume to ensure thorough coverage.</p> <p>DO NOT USE SKIP ROWS DURING APPLICATION.</p> <p>For in-season control of pear psylla, use an insecticide recommended for this use.</p>
	San Jose Scale	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A at delayed dormant with a superior spray oil at the manufacturer's recommended rates. Under heavy scale pressure, use the higher rate.</p> <p>For control of scale in season make application in cover sprays when scale crawlers first emerge.</p> <p>The use of oil at the crawler emergence stage has been shown to improve performance. Follow local recommendations regarding in season use and rates of oil in your area.</p>

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CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Pear (Cont.)	Codling Moth	4 to 5 oz.	Apply with ground equipment in 100 to 400 gals./A.
	Suppression of: Leafroller Pandemis Oblique Banded		<p>1st Generation Codling Moth: Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later. For additional generations apply other insecticides registered for Codling Moth control. The addition of oil at 1 to 2% has been shown to increase codling moth activity of ESTEEM 35 WP. Follow local recommendations regarding in season use and rates of oil in your area.</p> <p>For additional generations apply other insecticides registered for Codling Moth Control.</p>
<p>ESTEEM 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local IPM programs and resistance management programs.</p> <ul style="list-style-type: none">• Do not apply within 45 days of harvest.• Do not exceed two ESTEEM 35 WP applications per growing season.• Do not exceed 10 oz. of ESTEEM 35 WP Insect Growth Regulator per acre per season.• Do not apply earlier than 14 days after last ESTEEM 35 WP treatment.			

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent USA Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state, and federal IPM and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

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WALNUT

GENERAL

ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Walnut	Codling Moth Suppression of: Navel Orangeworm	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>1st Generation Codling Moth: Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later. For additional generations apply other insecticides registered for Codling Moth control. The addition of oil at 1 to 2% has been shown to increase codling moth activity of ESTEEM 35 WP. Follow local recommendations regarding in season use and rates of oil in your area.</p> <p>Late Season Codling Moth and Navel Orangeworm: Apply at egg deposition. Make a second application if needed 14 to 21 days later. Navel Orangeworm application should be made at hull split.</p>
	San Jose Scale Soft Scale	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>For control of scale in season, make application in cover sprays when scale crawlers first emerge. Under heavy scale pressure, use the high rate.</p> <p>The use of oil at the crawler emergence stage, has been shown to improve performance. Follow local recommendations regarding in-season use and rates of oil in your area.</p>
	<p>ESTEEM 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local IPM programs and resistance management programs.</p> <ul style="list-style-type: none"> • Do not apply within 21 days of harvest. • Do not exceed two ESTEEM 35 WP applications per growing season. • Do not exceed 10 oz. of ESTEEM 35 WP Insect Growth Regulator per acre per season. • Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. 		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent USA Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state, and federal IPM and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

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CROP	PESTS	DOSAGE PER ACRE	SPECIAL INSTRUCTIONS
Almond	San Jose Scale Suppression of: Peach Twig Borer	4 to 5 oz.	<p>Apply with ground equipment in 100 to 400 gals./A.</p> <p>Apply at delayed dormant or in cover sprays. Delayed Dormant: Use oil at 1-1/2 to 2 gals./100 gals. as dilute spray or 4 to 6 gals./acre as concentrate spray. Follow the manufacturer's directions and recommendations on timing and rates. Under heavy scale pressure, use the higher rate.</p> <p>Make application in cover sprays when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.</p> <p>ESTEEM 35 WP has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.</p>
<p>ESTEEM 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local IPM programs and resistance management programs.</p> <ul style="list-style-type: none"> • Do not apply within 21 days of harvest. • Do not exceed 15 oz. of ESTEEM 35 WP Insect Growth Regulator per acre per season. • Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. 			

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STORAGE AND DISPOSAL

PROHIBITIONS

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

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 use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

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

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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ESTEEM® - Reg. TM of Valent U.S.A. Corporation

Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

Form 000610 - ESTEEM35PND

EPA Reg. No. 59639.XX

EPA Est. No. _____

