



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg.
Number:

66330-40

Date of Issuance:

NOV 30 2004

NOTICE OF PESTICIDE:

X Registration
____ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Arena 50 WDG
Insecticide

Name and Address of Registrant (include ZIP Code):

Arvesta Corporation
100 First Street, Suite 1700
San Francisco, CA 94114

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

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 when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 66330-40".
 - b. At the beginning of the list of Personal Protective Equipment (PPE) within the Precautionary Statements, add the statements "Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart." In addition, revise the requirement for "waterproof gloves" to a requirement for "chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride."
 - c. Within the list of PPE for early re-entry in the Agricultural Use Requirements box, revise the requirement for "waterproof gloves" to a requirement for "chemical-resistant gloves made of any waterproof material."

Signature of Approving Official:

Daniel C. Kenny, Product Manager (01)
Insecticide-Rodenticide Branch, Registration Division (7505C)

Date:

NOV 30 2004

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- d. Add the statement "Do not apply where runoff is likely to occur" to the Environmental Hazards section.
- e. Add a drift management section to the labeling that includes the following information:

"Do not allow this product to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed."

- f. The "Directions for Use" heading appears twice on the labeling. Therefore, delete the second, redundant heading. At your option, you may replace the second, redundant heading with an alternative heading, such as "Application Instructions".
- g. Add the statement "Do not apply by air" to the General Restrictions and Limitations section.

3. Submit the following data within two years of the date of this Notice:

- a. Submit an aerobic aquatic metabolism study (§162-4).
- b. Submit a small-scale prospective groundwater monitoring study (§166-1). The submission of a protocol prior to study initiation is recommended.

4. Please note that, as a condition of the original registrations of products containing clothianidin as an active ingredient, additional ecological effects data were required. These data are also required to support all subsequently registered products containing clothianidin as an active ingredient. In the event that acceptable ecological effects data are not submitted to satisfy these conditions, you will be required to submit such data, or this registration will be subject to cancellation under FIFRA sec. 6(e).

5. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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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.

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Daniel C. Kenny
Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

DK: 305-7546: IRB/PM01

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	D. Kenny							
DATE ▶	11/30/04							

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ARENA® 50 WDG

INSECTICIDE

GROUP 4A INSECTICIDE

FOR USE ON TURFGRASS

INGREDIENTS	By wt.
Active Ingredient:	
*Clothianidin.....	50.0%
Inert Ingredients.....	50.0%
Total.....	100.0%

*(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

NOV 30 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
66330-40

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for additional precautionary statements.

Arvesta Corporation
100 First Street, Suite 1700
San Francisco, CA 94105

EPA Registration No. 66330-_____
EPA Est. No. _____

NET WEIGHT ____ OUNCES

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 swallowed	<ul style="list-style-type: none">• Call 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.
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

	<p>minutes.</p> <ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: CALL 1-800-228-5635 Ext. 174</p> <p>FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE: CALL CHEMTREC 1-800-424-9300</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes and waterproof gloves. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

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

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

USER SAFETY RECOMMENDATIONS

Users should:

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- 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

This product is toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. 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.

This product is toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply during bloom or when bees are present.

DIRECTIONS FOR USE

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

Carefully read and understand the Directions for Use and restrictions before applying this product.

Do not apply this product in any 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 on this label about personal protective equipment (PPE), notification to workers 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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into 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, socks, shoes, waterproof gloves.

GENERAL INFORMATION

ARENA 50 WDG is a broad spectrum insecticide, for control of a wide spectrum of insects infesting turfgrass. When applied as directed, ARENA 50 WDG provides excellent and long residual insect control.

GENERAL RESTRICTIONS AND LIMITATIONS

1. DO NOT use a foliar application of clothianidin (ARENA 50 WDG) following an in-furrow or soil application of clothianidin (CELERO 16 WSG).
2. Regardless of formulation or type of application (soil or foliar) on turfgrass, DO NOT apply more than a total of 0.4 lbs active ingredient, clothianidin per acre per season.
3. If the maximum season limit of clothianidin as mentioned above has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.

RESISTANCE MANAGEMENT

ARENA 50 WDG contains a Group 4A² insecticide. Insect biotypes with acquired resistance to Group 4A² may eventually dominate the insect population if Group 4A² insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by ARENA 50 WDG or other Group 4A².

To delay insecticide resistance consider:

- Avoiding the consecutive use of other Group 4A² insecticides that have a similar target site of action, on the same insect species.
- Using tank-mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive IPM program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report a suspected resistance, you may contact Arvesta Corporation at 1-866-761-9397.

² Not all members of this class have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different subgroups within this class may be an acceptable part of an integrated pest management program.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not ARENA 50 WDG can be used safely on all cultivars of plants listed on the label. ARENA 50 WDG has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be

sprayed to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of ARENA 50 WDG in a manner inconsistent with its labeling.

COMPATIBILITY OF MIXTURES

To obtain broad-spectrum pest control, ARENA 50 WDG can be tank-mixed with other pesticides. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. The user should conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

PREPARATION OF SPRAY SOLUTION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add and properly suspend the necessary amount of ARENA 50 WDG before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. A high quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. ARENA 50 WDG should be properly suspended and diluted prior to the addition of any adjuvant. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with this product. Maintain agitation during mixing and application. DO NOT allow the spray mixture to stand without agitation. Apply with properly calibrated spray equipment. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use.

APPLICATIONS

APPLICATION TO TURFGRASS

ARENA 50 WDG can be used as directed on grass grown in industrial, commercial and residential landscapes such as, but not limited to golf courses, home lawns, airports, cemeteries, parks, playgrounds, athletic fields and commercial sod farms.

ARENA 50 WDG has sufficient residual activity to provide high levels of control when applications are made preceding or during the egg laying activity of the target pests. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Apply ARENA 50 WDG in sufficient water to provide optimal distribution in the treated area. The use of properly calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will

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produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

Avoid mowing turfgrass until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

RECOMMENDED APPLICATION RATES

TURFGRASS	
PEST	APPLICATION RATE
White grubs (Japanese beetle, Green June beetle, European chafer, Northern masked chafer, Southern masked chafer, Oriental beetle) Bill bugs Sod webworms	6.4 to 9.6 oz of product per acre (0.2 to 0.3 lbs ai)
Asiatic garden beetle Chinch bugs Mole crickets (Suppression) Cutworms (Suppression)	9.6 to 12.8 oz of product per acre (0.3 to 0.4 lbs ai)

SPECIAL RESTRICTIONS

Do not apply more than a total of 12.8 oz of ARENA 50 WDG (0.4 lbs active ingredient clothianidin) per acre per season.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry place away from excessive heat. Do not store near food or feed. Store in original container only. To close package, replace and tighten cap to form an airtight seal.

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: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

CONDITIONS OF SALE

- Arvesta Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the Directions for Use under normal conditions of use.
- This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Arvesta. **Arvesta DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL**

NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. TOMEN DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

3. Critical and unforeseeable factors beyond Arvesta's control prevent Arvesta from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which the product is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the use stated on the label and even though label directions are followed. Except as stated in 1 above, Buyer and User acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

ARENA is a registered trademark of Arvesta Corporation.