

59639-149

02/11/2009

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



FEB 11 2009

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Sue-Chi Shen
Valent U.S.A. Corporation
2301 Ohio Crive, Suite 137
Plano, TX 75093
Shawnee Mission, KS 66201-0390

Dear Ms. Shen:

Subject: Amendment to change signal word to "CAUTION"
Safari 2 G Insecticide
EPA Registration No. 59639-149
Your Email Re-submissions were received 2-10-09
Decision Number: 842213

The labeling referred to above submitted in connection with the Federal Insecticide, Fungicide and Rodenticide, as amended is acceptable.

A stamped copy of the labeling is enclosed for your records. Please submit one final printed copy of the labeling before releasing the product for shipment. If you have any questions regarding this label, please contact Autumn Metzger at (703) 305-5314.

Sincerely,

A handwritten signature in cursive script that reads "Venus Eagle".

Venus Eagle
Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)



GROUP 4A INSECTICIDE

SAFARI™ 2 G INSECTICIDE

For systemic insect control in ornamental plants
For Greenhouse, Interior Plantscape, Lath and Shadehouses, Nursery and Outdoor
Landscape Use

Active Ingredient:	By Wt.
*Dinotefuran	2%
Other Ingredients	98%
Total	100%

*N-methyl-N'-nitro-N'-[(tetrahydro-3-furanyl)methyl]guanidine

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. 59639-149
EPA Est. No. 67545-AZ-01

NET CONTENTS 20 Pounds

ACCEPTED

FEB 11 2009

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA. Reg. No: 59639-149

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

CAUTION

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

FIRST AID	
If on skin or clothing:	<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.
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.
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):

Some 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.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as natural rubber ≥ 14 mils or barrier laminate and shoes plus socks.

USER SAFETY REQUIREMENTS

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

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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 shrimp. 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose of equipment washwaters or rinsate into a natural drain or water body. Do not contaminate water when disposing of equipment washwaters or rinsate.

This compound is toxic to honey bees. The persistence of residues and potential residual toxicity of Dinotefuran in nectar and pollen suggest the possibility of chronic risk to honey bee larvae and the eventual instability of the hive.

This product is toxic to bees exposed to treatment for more than 38 hours following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state and federal authorities.

Dinotefuran and its degradate, MNG have the properties and characteristics associated with chemicals detected in ground water. The high water solubility of dinotefuran, and its degradate, MNG, coupled with its very high mobility, and resistance to biodegradation indicates that this compound has a strong potential to leach to the subsurface under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. Periodic monitoring of shallow groundwater in the use area is recommended.

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, greenhouses and handlers of agricultural insecticides. 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 and 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 produce agricultural plants on farms, forests, nurseries or greenhouses.

RESISTANCE MANAGEMENT RECOMMENDATIONS

Safari™ 2 G contains a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A 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 *Safari* 2 G or other Group 4A insecticides.

To delay the development of insecticide resistance in greenhouse, nursery and interiorscape use sites, strongly consider the following recommendations:

- Do not apply *Safari* 2 G or other Group 4A insecticides to consecutive generations of the same insect pest species.
- Do not apply *Safari* 2 G or other Group 4A insecticides more than one time per crop cycle or three months, whichever is shorter.
- Base insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated insect populations for loss of field efficacy.
- Contact your local extension specialist, certified crop advisors, and/or manufacturers for insecticide resistance management (RM) and/or IPM recommendations for the specific site and resistant pest problems.
- For further information contact Valent U.S.A. Corporation at the following toll free number: 800-682-5368.

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

APPLICATION INFORMATION

Applications of *Safari 2 G* is intended for use by commercial licensed applicators in outdoor residential areas only.

ORNAMENTAL PLANTS

- *Safari 2 G* can be applied as a broadcast or single plant treatment for insect control in ornamental plants in greenhouses, nurseries, outdoor landscapes and interior plantscapes.
- *Safari 2 G* is a systemic product and will be taken up by the root system and transported throughout the plant.
- *Safari 2 G* will be transported more quickly in herbaceous plants than in woody shrubs and trees. Speed of insect control will range from as little as one day for small herbaceous plants in containers, to several weeks in large trees in growing in the landscape. Plant growth rate, rainfall and irrigation following application will affect speed of control.
- For nursery and landscape ornamentals, broadcast applications cannot exceed a total of 27 lbs of product (0.54 lbs active ingredient) per acre per year.

RESTRICTIONS AND LIMITATIONS

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Avoid runoff or puddling of irrigation water following application.
- Keep children and pets off treated areas until dusts have settled.
- Do not apply to areas that are water logged or saturated, or frozen, which will not allow penetration into the root zone of the plant.

APPLICATION PROCEDURES

For flower beds, broadcast *Safari 2 G* evenly over the top of plants. For treatment of individual shrubs or trees, broadcast *Safari 2 G* evenly on soil around base of plant within 18" of the trunk. For best control, pull back mulch prior to application if mulch is more than 1" thick. Irrigate after application with enough water to dissolve granules and move product into root zone.

PESTS CONTROLLED BY SAFARI 2 G		
Adelgids including: Hemlock Woolly Aphids Flatheaded Borers including: (excluding Emerald Ash Borer) Flatheaded Appletree Fungus Gnats (larvae) Glassy-Winged Sharpshooter Lacebugs including: Azalea Leaf Beetles Leafhoppers Leafminers including: Boxwood Serpentine Mealybugs including: Citrus Long-tailed Madeira	Mealybugs (continued) Obscure Pink Hibiscus Root Psyllids including: Asian Citrus Root Weevils (larvae and adults) including: Black Vine Roundheaded Borers (excluding Asian Longhorned) Scales (Armored and Soft) Including: Cottony Cushion Cryptomeria Cycad Aulacaspis Duplachionaspis Elongate Hemlock Euonymus	Scales (continued) False Oleander Fletcher Florida Red Florida Wax Oystershell Pine needle Tea Tulip Tree Thrips including: Chilli Western Flower (suppression) Whiteflies including: Giant Greenhouse Silverleaf/Sweetpotato (B and Q biotypes) White Grubs including: Oriental Beetle

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APPLICATION DIRECTIONS FOR SOIL MEDIA OF CONTAINERIZED PLANTS

For systemic insect control of containerized ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses and outdoor landscapes (commercial, industrial, recreational and outdoor residential) by broadcast or individual pot application.

CROPS	PRODUCT RATES		REMARKS
Ornamental Plants including: Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Treatment of Individual Pots		Evenly apply granules to soil surface.
	Pot Diameter (inches)	Teaspoons (tsp) per Pot	Only apply to moist soil media. Do not apply to dry or saturated media.
	4	1/8 to 1/4 tsp	
	5	1/4 to 1/3 tsp	For optimal performance, do not apply until roots from transplanted plugs or liners have grown at least 1/2 inch.
	6	1/3 to 2/3 tsp	
	7	2/3 to 3/4 tsp	
	8	3/4 to 1 tsp	
For larger pot volumes, typically apply 1/3 to 2/3 tsp (1.3 to 2.6 grams) to soil surface for each gallon of potting media in container.		Irrigate pots after application with just enough water to dissolve granules.	
Broadcast Application (Pot Diameter less than 4") Apply 0.62 lbs per 1,000 sq ft of bench space or plant bed. 27 lbs/A (0.54 lb ai/A)		Do not leach treated soil media for at least 7 days after application or performance may be reduced.	
		Heavy rainfall or excessive irrigation following application may decrease performance.	
		In general, higher rates will be needed to control insects on woody plants than on herbaceous plants.	
		Poinsettia: For optimal control of whiteflies, treat plants 1 to 3 weeks after pinch. Later season drenches will take longer to give control.	
		Broadcast application may be less residual than single pot rates, especially on woody plants.	

- One level teaspoon contains 4.0 grams and 1 cup (8 fl oz) contains 6.6 oz of *Safari 2 G*
- Refer to "Resistance Management Recommendations" section of the label for additional guidelines.
- Do not apply more than 27 lbs (0.54 lbs ai) per acre of nursery or landscape per year.

APPLICATION DIRECTIONS FOR SOIL APPLICATION TO IN-GROUND PLANTS

For systemic insect control on ornamental plants in field nurseries (in-ground), interior plantscapes and outdoor landscapes (commercial, industrial, recreational and outdoor residential) by broadcast application, or as an individual plant treatment.

CROP	PRODUCT RATES	REMARKS
Ornamental Plants including: Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	<p align="center">Treatment of individual plants</p> <p align="center">Trees 2.0 to 4.0 oz per inch of trunk diameter at breast height (DBH)</p> <p>For multi-stem trees, base rate on cumulative inches of diameter of all stems at breast height.</p> <p align="center">Shrubs 1.0 to 2.0 oz per foot of shrub height</p>	<p>For optimal control, apply early in plant's annual growing cycle and keep soil moist for at least 7 days after application.</p> <p>Only apply to moist soil. Do not apply to dry, saturated or frozen soil or when plants are not actively taking up water from soil.</p> <p>Heavy rainfall or inadequate irrigation immediately following application may decrease performance.</p> <p>Use higher labeled rates for very diameter trees and for broadleaf evergreens with dense foliage (example hollies).</p>
	<p align="center">Broadcast application in herbaceous flower beds and ground covers</p> <p align="center">Apply 0.62 lb per 1,000 sq ft of bed 27 lbs/A (0.54 lb ai/A)</p>	<p>Broadcast application may not be effective in shrubs and trees.</p>

- One level teaspoon contains 4.0 grams and 1 cup (8 fl oz) contains 6.6 oz of *Safari 2 G*
- Do not apply more than 27 lbs (0.54 lbs ai) per acre of nursery or landscape per year.
- To delay the development of resistance, do not make more than one soil application per crop cycle or three months, whichever is shorter.
- Refer to "Resistance Management Recommendations" section of the label for additional guidelines.

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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep pesticide in original container.

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

Store in a cool, dry place.

Do not store diluted spray.

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

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or 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

800-89-VALENT (898-2536)

Made in U.S.A.

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