

59639-135

11.9.2006

1/45



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES AND
PUBLIC SUBSTANCES

November 9, 2006

James W. Pensyl
Valent U. S. A. Corporation
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596

SUBJECT: Application for Pesticide Notification
Dinotefuran 70 SG Insecticide
EPA Reg. No. 59639-135
Application Dated October 24, 2006

Dear Mr. Pensyl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above product. The Registration Division (RD) has conducted a preliminary screen of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
 306260

Application for Pesticide - Section I

Company/Product Number 9639-135	2. EPA Product Manager Rita Kumar	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
Company/Product (Name) Inotefuran 70 SG Insecticide	PM# 1	
Name and Address of Applicant (Include ZIP Code) Valent USA Corporation 600 Riviera Avenue, Suite 200 Walnut Creek, CA 94596 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

FEB 09 2006

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Correction of one typographical error: addition of "spinach" to the list of crops comprising Crop Group 4 (Leafy vegetables, except brassica vegetables). This product has been approved for use on spinach but label inadvertently listed only New Zealand spinach and Vine spinach. Also, addition of new pests to vegetable use directions (cucurbit, fruiting, head & stem brassica, and leafy).

Proposed PRIA Action: Notification, no fee
 Contact is Jim Pensyl (jim.pensyl@valent.com)

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input checked="" type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name James Pensyl (jim.pensyl@valent.com)	Title Project Manager	Telephone No. (include Area Code) (925) 256-2786
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Project Manager	
4. Typed Name James Pensyl	5. Date October 24, 2006	



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
306260

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code) <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name		Title		Telephone No. (Include Area Code)	
<p align="center">Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>					6. Date Application Received (Stamped)
2. Signature			3. Title		
4. Typed Name			5. Date		

4/45

1600 Riviera Avenue
Suite 200
PO Box 8025
Walnut Creek CA 94596-8025
(925) 256-2700



October 24, 2006

Dinotefuran 70 SG
EPA Reg. No. 59639-135
Label Notification-Typographical Error/New Pests

Ms. Rita Kumar
Insecticide-Rodenticide Branch
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7505 P)
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, Virginia 22202

NOTIFICATION
FEB 09 2007

Dear Rita:

Valent U.S.A. is respectfully submitting a label notification to correct a typographical error on the product label for Dinotefuran 70 SG (EPA Reg. No. 59639-135). At the request of the California Department of Pesticide Regulation, we have added "Spinach" to the list of leafy vegetables that comprise Crop Group 4, Leafy Vegetables (except Brassica Vegetables). As you concurred in our telephone conversation this morning, Dinotefuran 70 SG is registered for use on spinach since tolerances for dinotefuran have been established for Crop Group 4 (and the label for this product relies on the registration of Dinotefuran 20 SG, EPA Reg. No. 33657-17, that clearly lists spinach on its label), but we inadvertently listed only New Zealand Spinach and Vine Spinach on our Dinotefuran 70 SG label.

We have also taken this opportunity to identify several new pests controlled under the vegetable use directions (cucurbits, fruiting, head & stem brassica, and leafy).

In support of this notification, the following items are enclosed:

- ✓ An Application for Pesticide Amendment (OPP Identifier 306260).
- ✓ One redline/strikeout copy of the label showing the correction and additional pests in red font.
- ✓ One CD with an electronic copy of the revised label in pdf format.
- ✓ A Certification With Respect to Label Integrity statement.
- ✓ A Certification statement indicating that this notification is consistent with the provisions of PR Notice 98-10 and EPA regulations in 40 CFR §152.46.

If you have any questions, please contact me at (925) 256-2786 or Mr. Eric Maurer in Valent's Washington, D.C. office at (202) 872-4682. Thank you for your cooperation.

Sincerely,

James W. Pensyl
Project Manager
Registration and Regulatory Affairs

Enclosures

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1600 Riviera Avenue
Suite 200
PO Box 8025
Walnut Creek, CA 94596-8025
(925) 256 2700

NOTIFICATION

FEB 09 2007



October 24, 2006

Dinotefuran 70 SG
EPA Reg No. 59639-135
Notification
OPP, Identifier No. 306260

NOTIFICATION

FEB 09 2007

CERTIFICATION STATEMENT

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.

Linda Obrestad
Labeling Specialist
Registration and Regulatory Affairs
Valent U.S.A. Corporation

1600 Riviera Avenue
Suite 200
P.O. Box 8025
Walnut Creek, CA 94596-8025
(925) 256-2700



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NOTIFICATION

FEB 09 2007

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
59639-135	10/24/06	059639-00135.20061024.DINO70SG.Notif.r.pdf

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Linda Obrestad
Signature

October 24, 2006
Date

Linda Obrestad
Labeling Specialist
Registration and Regulatory Affairs
Valent U.S.A. Corporation

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NOTIFICATION

FEB 09 2007

NOTIFICATION

[MASTER LABEL]

GROUP	4A	INSECTICIDE
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DINOTEFURAN 70 SG

FOR CONTROL OF SUCKING AND CHEWING INSECTS INFESTING COTTON, CUCURBITS, FRUITING VEGETABLES, GRAPE, HEAD & STEM BRASSICA, LEAFY VEGETABLES, ORNAMENTAL PLANTS, POTATO AND TURFGRASS.

Active Ingredient:	By Wt.
*Dinotefuran.....	70%
Other Ingredients.....	30%
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-RGL
EPA Est. No. 67545-AZ-01

NET CONTENTS 1 or 5 lbs.

[Sub Label 1]

DINOTEFURAN 70 SG

For use on cotton, cucurbits, fruiting vegetables grape, head & stem brassica, leafy vegetables and potato.

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NOTIFICATION

FEB 09 2007

GROUP	4A	INSECTICIDE
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DINOTEFURAN 70 SG

FOR CONTROL OF SUCKING AND CHEWING INSECTS INFESTING COTTON, CUCURBITS, FRUITING VEGETABLES, GRAPE, HEAD & STEM BRASSICA, LEAFY VEGETABLES AND POTATO.

Active Ingredient:	By Wt.
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*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-RGL
EPA Est. No. 67545-AZ-01

NET CONTENTS _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

FIRST AID

- If on skin or clothing:**
 - Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for further treatment advice.

- If swallowed:**
 - Call poison control center or doctor immediately for treatment advice.
 - Do not induce vomiting unless told to do so by the poison control center or doctor.
 - Have person sip a glass of water if able to swallow.
 - 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 further 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 poison control center or doctor for further 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):

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 polyethylene or polyvinyl chloride and shoes plus socks.

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.

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.

PHYSICAL OR CHEMICAL HAZARDS

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

SPRAY DRIFT ADVISORY

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crop thereof rendered for sale, use or consumption.

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: coveralls, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride and shoes plus socks

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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.

14/45

RESISTANCE MANAGEMENT

DINOTEFURAN 70 SG 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 DINOTEFURAN 70 SG or other Group 4A insecticides.

To delay insecticide resistance consider:

- NOT using a foliar application of DINOTEFURAN 70 SG or any insecticide in the neonicotinoid class following an in-furrow or soil application of DINOTEFURAN 70 SG.
- To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.
- Avoiding the consecutive use of DINOTEFURAN 70 SG or other Group 4A 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 Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturers for resistance management program and/or IPM recommendations for the specific site and resistant pest problems.
- Using another registered pesticide that is not in the neonicotinoid class or nitroguanidine subclass of chemistry, if the maximum season limit of DINOTEFURAN 70 SG has been applied and pest populations require additional treatments.

For further information contact Valent U.S.A. Corporation at the following toll free number: 1-800-682-5368.

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COMPATIBILITY

IMPORTANT: The crop safety of all potential tank mixes on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed.

DINOTEFURAN 70 SG is compatible with most commonly used pesticides. However, since it is not possible to test all possible mixtures, the user should pretest to assure the physical compatibility and lack of phytotoxic effect of any proposed mixtures with DINOTEFURAN 70 SG. To determine the physical compatibility of DINOTEFURAN 70 SG with other products, use a jar test, as described below:

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

APPLICATION PROCEDURES

Ground Application

Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium sized droplets and reduce drift. To help insure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply DINOTEFURAN 70 SG using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Aerial Application

Apply DINOTEFURAN 70 SG in water, using the minimum spray volume indicated in the Special Instructions of each crop, but not less than 3 gals./A. Increase spray volume where practical to improve coverage. Avoid making application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

16/45

GENERAL INFORMATION

Failure to follow directions and precautions on this label may result in crop injury, poor insect control and/or illegal residues.

For best performance, always follow these directions:

- DINOTEFURAN 70 SG should be applied when insect pest populations begin to build, but before populations reach economically damaging levels. Economic thresholds for pests controlled by DINOTEFURAN 70 SG may be available from your State and County Extension Service.
- DINOTEFURAN 70 SG is a selective insecticide which should have minimal impact on beneficial arthropods and its use is compatible with Integrated Pest Management (IPM) programs. However, DINOTEFURAN 70 SG is toxic to bees exposed to direct treatment or to residue on blooming crops and weeds. Do not apply DINOTEFURAN 70 SG or allow it to drift onto blooming plants if bees are actively foraging in the treated area.
- DINOTEFURAN 70 SG is rapidly taken up into foliage after application. However, thorough spray coverage is essential for optimal performance. Apply DINOTEFURAN 70 SG in sufficient water to ensure good coverage.
- DINOTEFURAN 70 SG may aid in the suppression of some pests. Suppression can mean either inconsistent control (good to poor), or consistent control at a level below that generally considered acceptable for commercial control.

Rotational Crops

For all crops other than cotton, cucurbits, fruiting vegetables, grapes, head & stem brassica, leafy vegetables and potato a 120 day plant back interval should be observed.

MIXING INSTRUCTIONS

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the desired amount of DINOTEFURAN 70 SG to the tank. Continue agitation while adding the remainder of the water. *Begin application of the solution after DINOTEFURAN 70 SG has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.*

DINOTEFURAN 70 SG plus Tank Mixtures

Add 1/2 of the required amount of water to the mix tank. Start the agitator before adding any tank mix partners. In general, tank mix partners should be added in this order: products packaged in water soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, emulsifiable concentrates, surfactants and adjuvants. *Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all the mixture has been applied.*

When using DINOTEFURAN 70 SG in tank mixtures, all products in water soluble packaging should be added to the tank before any other tank mix partner, including DINOTEFURAN 70 SG. Allow the water soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using DINOTEFURAN 70 SG in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

17/45

Application Through Irrigation Systems (Chemigation)

DINOTEFURAN 70 SG alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized calibrated irrigation equipment. Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Using Water from Public Water Systems

- **Do not apply DINOTEFURAN 70 SG through any irrigation system physically connected to a public water system.**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. DINOTEFURAN 70 SG may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

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Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Recommended Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts.
2. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
3. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
8. Do not apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

DINOTEFURAN 70 SG should be applied under the schedule specified in the specific crop use recommendations, not according to the irrigation schedule, unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86 to 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

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Center Pivot Irrigation Equipment

1. Use only drive systems that provide uniform water distribution.
2. Do not use end guns when chemigating DINOTEFURAN 70 SG through center pivot systems because of non-uniform application.
3. Plug the first nozzle closest to the well head to protect the water source.
4. Determine the size of the area to be treated.
5. Determine the time required to apply 0.1 to 0.25 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 to 95% of the manufacturer's rated maximum travel speed.
6. Using water, determine the injection pump output when operated at normal line pressure.
7. Determine the amount of DINOTEFURAN 70 SG, and any tank mix partners, required to treat the area covered by the irrigation system.
8. Add the required amount of DINOTEFURAN 70 SG, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See "Mixing Instructions" section of this label.)
9. Make sure the system is fully charged with water before starting injection of the DINOTEFURAN 70 SG solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
10. Maintain constant agitation in the solution tank during the injection period.
11. Inject the specified amount of DINOTEFURAN 70 SG per acre continuously for one complete revolution of the system.
12. Stop the injection equipment after treatment is complete. Continue to operate the system until the DINOTEFURAN 70 SG solution has cleared all of the sprinkler heads.
13. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 to 40 minute time interval.
3. Determine the amount of DINOTEFURAN 70 SG required to treat the area covered by the irrigation system.
4. Add the required amount of DINOTEFURAN 70 SG, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See "Mixing Instructions" section of this label.)
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject specified amount of DINOTEFURAN 70 SG per acre for either a 20 to 40 minute period at the end of a regular irrigation set, or as a 20 to 40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the DINOTEFURAN 70 SG solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

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SPRAY DRIFT RECOMMENDATIONS

- **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 of these factors when making decisions. Where states have more stringent regulations, they should be observed. Follow these recommendations to avoid spray drift:

1. Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 10 mph. Avoid applications when wind gusts approach 10 mph.
2. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
3. Do not cultivate or plant crops within 25 ft. of the aquatic area to allow growth of a vegetative filter strip.
4. Do not make applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increased height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
5. Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
6. Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. Applications more than 10 ft. above the crop canopy should be avoided.
7. For aerial applications, the spray boom should be mounted on the aircraft so to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

- **Air Assisted (Air Blast) Tree and Vine Sprayers (Grapes and Potato Only)**

Air assisted tree and vine sprayers carry droplets in the canopy of trees and vines via a radially or laterally directed air stream.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift.

1. Adjust deflectors and aiming devices so that spray is only directed into the canopy.
2. Block off upward pointed nozzles when there is no overhanging canopy.
3. Use only enough air volume to penetrate the canopy and provide good coverage. Use 50 – 300 gals. of finished spray per acre.
4. Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

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COTTON

CROP	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Cotton	Banded Wing Whitefly Cotton Aphid Leafhopper Plant Bug Silverleaf Whitefly Sweetpotato Whitefly Thrips	1 to 3 (0.045 - 0.134 lb ai/A)	<p>Higher water volumes provide improved insect control.</p> <p>Begin application when pest activity is first noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 7 days. For best results, time application before a damaging population becomes established.</p> <p>Under severe pest pressure, use the higher recommended rates.</p> <p>The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs.</p> <p>To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.</p>
<p>Foliar Application</p> <ul style="list-style-type: none"> • Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./A by air or 10 to 50 gals./A by ground). • Do not apply DINOTEFURAN 70 SG within fourteen (14) days of harvest. • Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.268 lb. ai) per acre per season. 			

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CUCURBITS

CROPS	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Acorn Squash Balsam Apple Balsam Pear Bitter Melon Butternut Squash Calabaza Cantaloupe Casaba Chayote Chinese Cucumber Chinese Waxgourd (Chinese Preserving Melon) Citron Melon Crenshaw Melon Crookneck Squash Cucumber Edible Gourd Gherkin Golden Pershaw Melon Honey Balls Honeydew Melon Hubbard Squash Mango Melon Momordica spp. Muskmelon Persian Melon Pineapple Melon Pumpkin Santa Claus Melon Scallop Squash Snake Melon Spaghetti Squash Straightneck Squash Summer Squash True Cantaloupe Vegetable Marrow Watermelon Winter Squash Zucchini	Brown Stink Bug Cucumber Beetle Grasshopper Green Peach Aphid Green Stink Bug Harlequin Bug Melon Aphid Leafhopper Leafminer Southern Green Stink Bug Squash Bug Thrips Whiteflies	FOLIAR: 1 to 4 (0.045 - 0.179 lb ai/A) OR SOIL: 5 to 6 (0.226 - 0.268 lb ai/A)	Higher water volumes provide improved insect control. Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 7 days. For best results, time application before a damaging population becomes established. Under severe pest pressure, use the higher recommended rates. Do not apply to vegetables grown for seed. The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous. DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs. To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.

Note: Do not combine foliar applications with soil applications, or vice versa. Only use one application method.

Foliar application

- Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./A by air or 20 to 40 gals./A by ground).
- Do not apply DINOTEFURAN 70 SG within one (1) day of harvest.
- Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.268 lb. ai) per acre per season.

Soil Application

- See conversion chart on this label for linear application rates.
- Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A).
- Do not apply DINOTEFURAN 70 SG within twenty-one (21) days of harvest.
- Do not apply more than a total of 12 oz. of DINOTEFURAN 70 SG (0.536 lb. ai) per acre per season.

Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:

1. In a narrow band centered on the plant row in the bedding operation just prior to planting. For best results band width should be 2" or less and placed 1 to 2" below the seed depth.
2. In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.
3. As a post-seeding drench, transplant drench or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.
4. As a sidedress after plants are established. Applications should be placed within 2 to 4" to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed.
5. In drip or trickle irrigation water.

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FRUITING VEGETABLES

CROPS	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Bell Pepper Chili Pepper Cooking Pepper Eggplant Ground Cherry Pepino Pimento Sweet Pepper Tomatillo Tomato (Do not apply to varieties of tomato which are less than 2 inches in size, such as cherry or grape tomatoes.)	Brown Stink Bug Colorado Potato Beetle Cucumber Beetle Flea Beetle Grasshopper Green Peach Aphid Green Stink Bug Harlequin Bug Leafhopper Leafminer Potato Aphid Southern Green Stink Bug Squash Bug Thrips Whiteflies	FOLIAR: 1 to 4 (0.045 - 0.179 lb ai/A) OR SOIL: 5 to 6 (0.226 - 0.268 lb ai/A)	<p>Higher water volumes provide improved insect control.</p> <p>Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 7 days. For best results, time application before a damaging population becomes established.</p> <p>Under severe pest pressure, use the higher recommended rates.</p> <p>Do not apply to vegetables grown for seed.</p> <p>Do not apply to varieties of tomato which are less than 2 inches in size, such as cherry or grape tomatoes.</p> <p>The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Resistance Management programs.</p> <p>To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.</p>

Note: Do not combine foliar applications with soil applications, or vice versa. Only use one application method.

Foliar Application

- Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./A by air or 20 to 40 gals./A by ground).
- Do not apply DINOTEFURAN 70 SG within one (1) day of harvest.
- Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.268 lb. ai) per acre per season.

Soil Application

- See conversion chart for linear application plant application rates.
- Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A).
- Do not apply DINOTEFURAN 70 SG within twenty-one (21) days of harvest.
- Do not apply more than a total of 12 oz. of DINOTEFURAN 70 SG (0.536 lb. ai) per acre per season.

Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:

1. In a narrow band centered on the plant row in the bedding operation just prior to planting. For best results band width should be 2" or less and placed 1 to 2" below the seed depth.
2. In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.
3. As a post-seeding drench, transplant drench or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.
4. As a sidedress after plants are established. Applications should be placed within 2 to 4" to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed.
5. In drip or trickle irrigation water.

GRAPE

CROP	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Grape	Grape Mealybug Leafhopper Thrips Glassy-Winged Sharpshooter	FOLIAR: 1 to 3 (0.045 - 0.132 lb ai/A) SOIL: 5 to 6 (0.226 - 0.264 lb ai/A)	<p>Higher water volumes provide improved insect control.</p> <p>Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 14 days. For best results, time application before a damaging population becomes established.</p> <p>Under severe pest pressure, use the higher recommended rates.</p> <p>The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs.</p> <p>To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.</p>
<p>NOTE: Regardless of application method do not apply more than a total of 0.754 lb. of DINOTEFURAN 70 SG (0.528 lb. ai) per acre per season</p> <p>Foliar Application</p> <ul style="list-style-type: none"> Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./A by air or 10 to 50 gals./A by ground) Do not apply DINOTEFURAN 70 SG within one (1) day of harvest. Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.264 lb. ai) per acre per season. <p>Soil Application</p> <ul style="list-style-type: none"> Make only one (1) soil application per season. Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A) Do not apply DINOTEFURAN 70 SG within twenty-eight (28) days of harvest. Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.264 lb. ai) per acre per season. Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using drip or trickle irrigation water. 			

HEAD AND STEM BRASSICA

CROPS	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Broccoli Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli Chinese Cabbage Chinese Mustard Cabbage Kohlrabi	Brown Stink Bug Cabbage Aphid Cucumber Beetle Grasshopper Green Peach Aphid Green Stink Bug Harlequin Bug Leafminer Southern Green Stink Bug Squash Bug Whiteflies	FOLIAR: 1 to 4 (0.045 - 0.179 lb ai/A) OR SOIL: 5 to 6 (0.226 - 0.268 lb ai/A)	Higher water volumes provide improved insect control. Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 7 days. For best results, <i>time application before a damaging population becomes established.</i> Under severe pest pressure, use the higher recommended rates. Do not apply to vegetables grown for seed. The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous. DINOTEFURAN 70SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs. To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.

Note: Do not combine foliar applications with soil applications, or vice versa. Only use one application method.

Foliar Application

- Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./acre by air or 20 to 40 gals./acre by ground).
- Do not apply DINOTEFURAN 70 SG within one (1) day of harvest.
- Do not apply more than a total of 6 oz. of DINOTEFURAN 70SG (0.268 lb. ai) per acre per season.

Soil Application

- See conversion chart for linear application plant application rates.
- Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A).
- Do not apply DINOTEFURAN 70 SG within twenty-one (21) days of harvest.
- Do not apply more than a total of 12 oz. of DINOTEFURAN 70SG (0.536 lb. ai) per acre per season.

Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:

1. In a narrow band centered on the plant row in the bedding operation just prior to planting. For best results band width should be 2" or less and placed 1 to 2" below the seed depth.
2. In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.
3. As a post-seeding drench, transplant drench or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.
4. As a sidedress after plants are established. Applications should be placed within 2 to 4" to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed.
5. In drip or trickle irrigation water.

LEAFY VEGETABLES (Except Brassica Vegetables)

CROPS	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Amaranth (Chinese Spinach) Arugula (Rocket) Cardoon Celery Celtuce Chervil Chinese Celery Chrysanthemum Edible-leaved Garland Corn Salad Cress Garden Upland Dandelion Dock (Sorrel) Endive (Escarole) Florence Fennel Lettuce Head Leaf Orach Parsley Purslane Garden Winter Radicchio (Red Chicory) Rhubarb Spinach Spinach, New Zealand Spinach, Vine Swiss Chard	Banded Wing Whitefly Brown Stink Bug Cucumber Beetle Grasshopper Green Peach Aphid Green Stink Bug Harlequin Bug Leafhopper Leafminer Potato Aphid Silverleaf Whitefly Southern Green Stink Bug Squash Bug Sweetpotato Whitefly	FOLIAR: 1 to 3 (0.045 to 0.134 lb. ai/A) OR SOIL: 5 to 6 (0.226 to 0.268 lb. ai/A)	<p>Higher water volumes provide improved insect control.</p> <p>Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations. Repeat as needed to maintain control, but not more often than every 7 days. For best results, time application before a damaging population becomes established.</p> <p>Under severe pest pressure, use the higher recommended rates.</p> <p>Do not apply to vegetables grown for seed.</p> <p>The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs.</p> <p>To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.</p>
<p>Note: Do not combine foliar applications with soil applications, or vice versa. Only use one application method.</p> <p>Foliar Application</p> <ul style="list-style-type: none"> • Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./A by air or 20 to 40 gals./A by ground). • Do not apply DINOTEFURAN 70 SG within seven (7) days of harvest. • Do not apply more than a total of 6 oz. of DINOTEFURAN 70 SG (0.268 lb. ai) per acre per season. <p>Soil Application</p> <ul style="list-style-type: none"> • See conversion chart for linear application rates. • Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A). • Do not apply DINOTEFURAN 70 SG within twenty-one (21) days of harvest. • Do not apply more than a total of 12 oz. of DINOTEFURAN 70 SG (0.536 lb. ai) per acre per season. <p>Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:</p> <ol style="list-style-type: none"> 1. In a narrow band centered on the plant row in the bedding operation just prior to planting. For best results band width should be 2" or less and placed 1 to 2" below the seed depth. 2. In-furrow spray at or below seed level or a narrow surface band above the seed line during planting. For surface banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control. 3. As a post-seeding drench, transplant drench or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone. 4. As a sidedress after plants are established. Applications should be placed within 2 to 4" to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed. <p>In drip or trickle irrigation water.</p>			

POTATO

CROP	PESTS	PRODUCT RATES OZ./A	SPECIAL INSTRUCTIONS
Potato	Colorado Potato Beetle Flea Beetle Green Peach Aphid Potato Aphid Potato Leafhopper Psyllid	FOLIAR: 1 to 1.5 (0.050 - 0.066 lb ai/A) SOIL: 6.5 to 7.5 (0.28 - 0.33 lb ai/A)	<p>Higher water volumes provide improved insect control.</p> <p><i>Begin applications when first pest activity is noticed or when insects reach threshold levels per State and County Extension Service recommendations Repeat as needed to maintain control, but not more often than every 14 days. For best results, time application before a damaging population becomes established.</i></p> <p>Under severe pest pressure, use the higher recommended rates.</p> <p>The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>DINOTEFURAN 70 SG may be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs.</p> <p>To optimize resistance management practices, no more than three (3) applications of DINOTEFURAN 70 SG per growing season are allowed.</p>

NOTE: Regardless of application method do not apply more than a total of 0.754 lb. of DINOTEFURAN 70 SG (0.528 lb. ai) per acre per season.

Foliar Application

- Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals./acre by air or 10 to 50 gals./acre by ground).
- Do not apply DINOTEFURAN 70 SG within seven (7) days of harvest.
- Do not apply more than a total of 4.5 oz. of DINOTEFURAN 70 SG (0.198 lb. ai) per acre per season.

Soil Application

- See conversion chart for linear application plant application rates.
- Apply with ground equipment in adequate water for uniform coverage (10 to 100 gals./A).
- Apply once at preplant, preemergence or at ground crack as directed below.
- Do not apply more than a total of 7.5 oz. of DINOTEFURAN 70 SG (0.33 lb. ai) per acre per season.

Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:

1. In a narrow band centered on the plant row in the bedding operation just prior to planting.
2. In-furrow spray at planting. Direct spray in the furrow on the seed pieces or potatoes.
3. As a sidedress to both sides of the row or as a spray at ground crack directly over the row during hilling. Cover immediately with soil.

CONVERSION CHART FOR LINEAR APPLICATION

Rate/A of Product (OZ.)	Row Width/Inches							
	20	24	28	30	32	34	36	40
	Ounces Product/1000 Row Ft.							
5	0.19	0.23	0.27	0.29	0.31	0.33	0.34	0.38
5.25	0.20	0.24	0.28	0.30	0.32	0.34	0.36	0.40
5.5	0.21	0.25	0.29	0.32	0.34	0.36	0.38	0.42
5.75	0.22	0.26	0.31	0.33	0.35	0.37	0.40	0.44
6	0.23	0.28	0.32	0.34	0.37	0.39	0.41	0.46
6.25	0.24	0.29	0.33	0.36	0.38	0.41	0.43	0.48
6.5	0.25	0.30	0.35	0.37	0.40	0.42	0.45	0.50
6.75	0.26	0.31	0.36	0.39	0.41	0.44	0.46	0.52
7	0.27	0.32	0.37	0.40	0.43	0.46	0.48	0.54
7.25	0.28	0.33	0.39	0.42	0.44	0.47	0.50	0.55
7.5	0.29	0.34	0.40	0.43	0.46	0.49	0.52	0.57

STORAGE AND DISPOSAL

PROHIBITIONS

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 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

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:
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 Walnut Creek, CA 94596-8025
www.valent.com

Made in U.S.A.

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 EPA Est. No. 67545-AZ-01

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[Sub Label 2]

DINOTEFURAN 70 SG
For use on ornamental plants and turfgrass
For outdoor use only.

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GROUP	4A	INSECTICIDE
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DINOTEFURAN 70 SG

For control of sucking and chewing insects infesting ornamental plants and turfgrass

For outdoor use only.

Active Ingredient:	By Wt.
*Dinotefuran.....	70%
Other Ingredients.....	30%
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-RGL
EPA Est. No. 67545-AZ-01

NET CONTENTS _____

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

FIRST AID

- If on skin or clothing:**
 - Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for further treatment advice.
- If swallowed:**
 - Call poison control center or doctor immediately for treatment advice.
 - Do not induce vomiting unless told to do so by the poison control center or doctor.
 - Have person sip a glass of water if able to swallow.
 - 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 further 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 poison control center or doctor for further 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):

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 polyethylene or polyvinyl chloride and shoes plus socks.

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.

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.

PHYSICAL OR CHEMICAL HAZARDS

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

SPRAY DRIFT ADVISORY

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crop thereof rendered for sale, use or consumption.

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: coveralls, *chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride* 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.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.
Do not enter treated areas without protective clothing until sprays have dried.

RESISTANCE MANAGEMENT RECOMMENDATIONS

DINOTEFURAN 70 SG 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 DINOTEFURAN 70 SG or other Group 4A insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of DINOTEFURAN 70 SG or other Group 4A 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 Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturers for resistance management 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: 1-800-682-5368.

**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.

GENERAL INFORMATION

TURFGRASS

- DINOTEFURAN 70 SG can be used for the control of soil inhabiting pests of turfgrass such as Annual Bluegrass Weevil, Billbugs, Black Turfgrass Ataenius, European Chafer, Green June Beetle, Japanese Beetle, Masked Chafers, Mole Crickets and Oriental Beetle. DINOTEFURAN 70 SG can also be used for the suppression of chinchbugs and cutworms in turfgrass areas.
- DINOTEFURAN 70 SG can be used as directed on outdoor commercial, recreational and residential turfgrass in sites such as airports, athletic fields, cemeteries, commercial lawns, golf courses, grounds or lawns around business and office complexes, home lawns, multi-family residential and apartment complexes, military and other institutions, parks, playgrounds, shopping centers and sod farms.
- Timing of DINOTEFURAN 70 SG applications should be targeted at or just prior to or during egg laying of the target pests. The need for an application can be based on historical and/or physical monitoring of the site, current season adult trapping, previous experience or other methods. Optimum control will be achieved when applications are made prior to or at egg hatch of the target pests followed by sufficient irrigation or rainfall to move the active ingredient through the turf thatch layer. Consult your State and County Extension Service for more specific application timing recommendations.
- Applications should not be made when the target site is saturated with water. Adequate distribution of the active ingredient cannot be achieved when this condition exists.

ORNAMENTAL PLANTS

- DINOTEFURAN 70 SG can be applied as an outdoor broadcast spray or foliar spray for insect control in ornamental plants in commercial or residential landscapes, greenhouses, industrial landscapes and nurseries.
- DINOTEFURAN 70 SG is a systemic product and will be taken up by the root system and foliage and translocated upward throughout the plant. When applied as a foliar spray, the product offers locally systemic control of foliar pests.
- Application can be made by foliar sprays or soil applications, including drenches and broadcast foliar sprays.
- When applied as a drench to plants with woody stems, systemic activity will be delayed until the product can be translocated throughout the plant. Make applications prior to buildup of the target pest.
- For outdoor and landscape ornamentals, broadcast applications cannot exceed a total of 3/4 lb. of DINOTEFURAN 70 SG (0.52 lb ai.) 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 spray has dried.
- Avoid application to areas which are water logged or saturated, or frozen, which will not allow penetration into the root zone of the plant.

MIXING INSTRUCTIONS

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the desired amount of DINOTEFURAN 70 SG to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after DINOTEFURAN 70 SG has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

DINOTEFURAN 70 SG plus Tank Mixtures

Add 1/2 of the required amount of water to the mix tank. Start the agitator before adding any tank mix partners. In general, tank mix partners should be added in this order: products packaged in water soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, emulsifiable concentrates, and surfactants/adjuvants. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all the mixture has been applied.

When using DINOTEFURAN 70 SG in tank mixtures, all products in water soluble packaging should be added to the tank before any other tank mix partner, including DINOTEFURAN 70 SG. Allow the water soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using DINOTEFURAN 70 SG in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

COMPATIBILITY

IMPORTANT: The crop safety of all potential tank mixes on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed.

DINOTEFURAN 70 SG is compatible with most commonly used pesticides, crop oils, adjuvants, and nutritional sprays. However, since it is not possible to test all possible mixtures, the user should pretest to assure the physical compatibility and lack of phytotoxic effect of any proposed mixtures with DINOTEFURAN 70 SG. To determine the physical compatibility of DINOTEFURAN 70 SG with other products, use a jar test, as described below:

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

APPLICATION PROCEDURES AND SPRAY EQUIPMENT (Ground Application)

Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium-sized droplets and reduce drift. To help insure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply DINOTEFURAN 70 SG using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Ground Application to Turfgrass

Apply DINOTEFURAN 70 SG through conventional spray equipment in a minimum of 1 gal. of finished spray per 1000 sq. ft. Ensure adequate distribution in the treated area using accurately calibrated equipment normally used for application of turfgrass insecticides. Use equipment which will 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 skips by using marker dyes or foam aids.

Ground Application to Ornamental Plants

DINOTEFURAN 70 SG can be applied using many different types of application equipment. Apply in sufficient water to ensure good coverage of ornamental plants. When making applications to plants with hard to wet foliage such as holly or pine, the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used, an equivalent amount of product should be used on the spray area as would be used in a dilute solution. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. Applications can be made to foliage or as a soil drench.

APPLICATION THROUGH IRRIGATION SYSTEMS (Chemigation)

DINOTEFURAN 70 SG alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems where so noted in the soil application of each crop. Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems (turfgrass) or microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation, or motorized calibrated irrigation equipment (ornamentals). Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State and County Extension Service, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Using Water from Public Water Systems

- Do not apply DINOTEFURAN 70 SG through any irrigation system physically connected to a public water system.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. DINOTEFURAN 70 SG may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Recommended Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
2. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
8. Do not apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

DINOTEFURAN 70 SG should be applied under the schedule specified in the specific use recommendations, not according to the irrigation schedule unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86 - 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Users should check with State and County Extension Service for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

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Center Pivot Irrigation Equipment

1. Use only drive systems that provide uniform water distribution.
2. Do not use end guns when chemigating DINOTEFURAN 70 SG through center pivot systems because of non-uniform application.
3. Plug the first nozzle closest to the well head to protect the water source.
4. Determine the size of the area to be treated.
5. Determine the time required to apply 0.1 - 0.25 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 - 95% of the manufacturer's rated maximum travel speed.
6. Using water, determine the injection pump output when operated at normal line pressure.
7. Determine the amount of DINOTEFURAN 70 SG, and any tank mix partners, required to treat the area covered by the irrigation system.
8. Add the required amount of DINOTEFURAN 70 SG, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See "Mixing Instructions" section of this label.)
9. Make sure the system is fully charged with water before starting injection of the DINOTEFURAN 70 SG solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
10. Inject the specified amount of DINOTEFURAN 70 SG per acre continuously for one complete revolution of the system.
11. Stop the injection equipment after treatment is complete. Continue to operate the system until the DINOTEFURAN 70 SG solution has cleared all of the sprinkler heads.
12. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20-40 minute time interval.
3. Determine the amount of DINOTEFURAN 70 SG required to treat the area covered by the irrigation system.
4. Add the required amount of DINOTEFURAN 70 SG, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See "Mixing Instructions" section of this label.)
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject specified amount of DINOTEFURAN 70 SG per acre for either a 20-40 minute period at the end of a regular irrigation set, or as a 20-40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the DINOTEFURAN 70 SG solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

SPRAY DRIFT RECOMMENDATIONS

As with all crop protection products, it is important to avoid off target movement. Do not allow spray to drift onto adjacent land, crops, or aquatic areas. Follow these recommendations to avoid spray drift:

1. Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 10 mph. Avoid applications when wind gusts approach 10 mph.
2. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
3. Do not cultivate or plant crops within 25 ft. of the aquatic area to allow growth of a vegetative filter strip.
4. Do not make applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increased height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
5. Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
6. Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. Applications more than 10 ft. above the crop canopy should be avoided.
7. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

Air Assisted (Air Blast) Tree and Vine Sprayers (Ornamentals Only)

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

1. Adjust deflectors and aiming devices so that spray is only directed into the canopy.
2. Block off upward pointed nozzles when there is no overhanging canopy.
3. Use only enough air volume to penetrate the canopy and provide good coverage. Use 50 to 300 gals. of finished spray per acre.
4. Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

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TURFGRASS

CROPS	PESTS	PRODUCT RATES LBS./A	SPECIAL INSTRUCTIONS
Commercial Recreational Residential	Southern Mole Cricket Tawny Mole Cricket	3/4 (0.28 oz. per 1000 sq. ft.)	Make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, application should be accompanied by a curative insecticide such as ORTHENE® Turf, Tree & Ornamental Spray.
	White grub larvae such as: Annual Bluegrass Weevil Asiatic Garden Beetle Billbug Black Turfgrass Ataenius European Chafer Green June Beetle Japanese Beetle May/June Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	3/4 (0.28 oz. per 1000 sq. ft.)	For optimum control of grubs, billbugs, and annual bluegrass weevil, make application prior to or during egg hatch of the target pest.
	Suppression of: Chinchbug Cutworms Sod Webworm	3/4 (0.28 oz. per 1000 sq. ft.)	For suppression of chinchbugs, make application prior to hatching of the first instar nymphs.
<ul style="list-style-type: none"> • Apply in sufficient water to ensure thorough coverage of target area. Use a minimum of 50 gals. finished spray per acre. • Consult your local State and County Extension Service or State Extension Turfgrass Specialists for more specific information on timing of insecticide applications. • For optimal control, irrigation or rainfall should occur within 24 hours after application to ensure movement of the active ingredient through the thatch. • Avoid mowing turf or lawn grass until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected. • Do not apply more than a total of 3/4 lb. of DINOTEFURAN 70 SG (0.52 lb. ai) per acre per year. 			

ORNAMENTAL PLANTS (FOLIAR APPLICATION)

For insect control in ornamental plants grown in commercial, industrial, and residential areas and outdoor nursery and greenhouse ornamental production.

CROPS	PESTS	PRODUCT RATES OZ./100 GALS.	SPECIAL INSTRUCTIONS
Evergreens Flowering Plants Foliage Plants Ground Covers Ornamental Plants Ornamental Trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Shrubs	Adelgid Aphid Asian Cycad Scale Florida Wax Scale Japanese Beetle (adult) Lacebug Leaf Beetle Leafhopper (suppression) Leafminer Mealybug Sawfly Larvae Scale (Armored and Soft) Tea Scale Thrips (suppression) Whiteflies Giant Greenhouse Silverleaf	1.14 - 2.2 (0.05 to 0.1 lbs. ai per 100 gals.)	For insect control on ornamental plants Start treatment prior to buildup of high pest populations. Reapply on a 14-21 day interval as necessary. 100 gals. of spray mix will treat 20,000 sq. ft. of area.
• Do not apply more than a total of 3/4 lb. of DINOTEFURAN 70 SG (0.52 lb. ai) per acre per season.			

ORNAMENTAL PLANTS (DRENCH APPLICATION)

For insect control in ornamental plants grown in commercial, industrial, and residential areas, indoor and outdoor nursery and greenhouse ornamental production.

CROPS	PESTS	PRODUCT RATES OZ./100 GALS.	SPECIAL INSTRUCTIONS
Evergreens Flowering Plants Foliage Plants Ground Covers Ornamentals Plants Ornamental Trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Shrubs	Aphids Asian Cycad Scale Florida Wax Scale Fungus Gnat Leafminer Mealybug Scale (Armored and Soft) Tea Scale Thrips Whiteflies Giant Greenhouse Silverleaf	3.4 - 6.9 (0.15 to 0.3 lbs. ai per 100 gals.)	Apply 4 fl. oz. of finished solution per 6" pot. Adjust amount of drench solution for smaller or larger pot size.

STORAGE AND DISPOSAL

PROHIBITIONS

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 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

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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