

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 28 2009

Ms. Julie Schlekau
Federal Registration Manager
Valent USA Corporation
1600 Riviera Avenue, Suite 200
P.O. Box 8025
Walnut Creek, CA 94596

Dear Ms. Schlekau:

Subject: Label amendment; addition of pests, clarification of foliar and soil application
Dinotefuran 70SG
EPA Registration Number 59639-135
Your submission dated July 24, 2009

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, with the following comments:

Please note that alternate confidential statement of formula (CSF) dated 1/28/2009 is not applicable to this registration, because the label does not bear use directions related to this alternate formulation. Therefore, this CSF is now invalid, and the basic CSF dated 4/26/2005 is the only CSF for this product.

A stamped copy of the label is enclosed. Submit two (2) copies of the final printed label before you release the product for shipment bearing the revised labeling. If you have any questions, please do not hesitate to write or call me at (703) 308-8291.

Sincerely,

Rita Kumar

Rita Kumar
Senior Regulatory Specialist
Insecticide Rodenticide Branch
Registration Division (7505C)
E-mail: kumar.rita@epa.gov

Enclosure



GROUP 4A INSECTICIDE

[MASTER LABEL]

This master label contains 2 sub-labels:

Sub-label 1: Dinotefuran 70 SG contains agricultural uses for control of sucking and chewing insects infesting cotton, cucurbits, fruiting vegetables, grape, head & stem brassica, leafy vegetables and potato.

Sub-label 2: Dinotefuran 70 SG contains commercial uses for control of sucking and chewing insects on ornamental plants grown in commercial, industrial, and outdoor residential areas, indoor and outdoor nursery and greenhouse ornamental production (commercial, industrial, recreational: parks, schools, cemeteries, airport grounds, military grounds, golf courses, woodlots, and athletic fields, and turfgrass grown in outdoor commercial, recreational and residential 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).

DINOTEFURAN 70 SG

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

ORNAMENTAL PLANTS GROWN IN COMMERCIAL, INDUSTRIAL, AND OUTDOOR RESIDENTIAL AREAS, INDOOR AND OUTDOOR NURSERY AND GREENHOUSE ORNAMENTAL PRODUCTION (COMMERCIAL, INDUSTRIAL; RECREATIONAL: PARKS, SCHOOLS, CEMETERIES, AIRPORT GROUNDS, MILITARY GROUNDS, GOLF COURSES, WOODLOTS, AND ATHLETIC FIELDS, AND TURFGRASS GROWN IN OUTDOOR COMMERCIAL, RECREATIONAL AND RESIDENTIAL 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).

Table with 2 columns: 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. 59639-135
EPA Est. No. 67545-AZ-01

NET WEIGHT _____ Pounds

ACCEPTED With COMMENTS In EPA Letter Dated: SEP 28 2009

Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No:

59639-135

[Sub Label 1]

DINOTEFURAN 70 SG

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



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.
*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. 59639-135
EPA Est. No. 67545-AZ-01

NET WEIGHT _____ Pounds

**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.

USER SAFETY REQUIREMENTS

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

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

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

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

RISKS OF USING THIS PRODUCT

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

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

LIMITED WARRANTY

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

LIMITATION OF LIABILITY

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

PROMPT NOTICE OF CLAIM

Valent must be provided with prompt notice of any claim so that an immediate inspection of the affected property or plants can be made. To the extent applicable law allows such requirement, notice of a claim shall be given promptly to Valent, whether the claim is based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

NO AMENDMENTS

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

TANK MIXES

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

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

APPLICATION INFORMATION

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:

- Apply DINOTEFURAN 70 SG when insect pest populations begin to build, but before populations reach economically damaging levels. Check with your State and County Extension Service for availability of economic thresholds for pests controlled by DINOTEFURAN 70 SG.
- DINOTEFURAN 70 SG is a selective insecticide which will typically 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 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 will suppress some pests. Suppression is defined as either inconsistent control (good to poor), or consistent control at a level below that generally considered acceptable for commercial control.

Rotational Crops

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

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. Whenever possible add tank mix partners 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, add all products in water soluble packaging 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. Do not exceed labeled dosage rate of any product in the tank mix. Follow the most restrictive label precautions and limitations of any product in the tank mix. Do not mix DINOTEFURAN 70 SG with any product whose label 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, confirm safety to the target crop.

DINOTEFURAN 70 SG is compatible with most commonly used pesticides. However, since it is not possible to test all possible mixtures, the user must 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

Select spray nozzles that 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. Spray adjuvants will improve spray coverage on some plant surfaces. Do not apply under conditions that will prevent adequate spray coverage or that will promote excessive spray drift.

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. Do not apply under conditions that will prevent adequate spray coverage or that will promote excessive spray drift.

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, 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 that are supplied by a public water system, but 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, 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

Apply DINOTEFURAN 70 SG 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. Check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

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, inject a dye indicator into the lines to mark the end of the application period.

SPRAY DRIFT RECOMMENDATIONS

- **Applicator is responsible for employing practices that will minimize spray drift at the application site.**

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. Observe any state regulations that are more stringent than regulations on this label. Follow these recommendations to minimize 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 or when wind gusts approach 10 mph.
2. To reduce risk of exposure to sensitive aquatic areas, do not apply 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 is a potential indicator of the presence of an inversion in humid areas. Generation of smoke and observation of the smoke layer near the ground will assist applicators in determining if an inversion is present.
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 not using excessive spray boom pressure.

6. Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. Do not apply more than 10 ft above the crop canopy.
7. For aerial applications, mount spray boom on the aircraft so as to minimize drift caused by wing tip vortices. Use minimum practical boom length and do not use a boom whose length exceeds 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.

COTTON

CROP	PESTS	PRODUCT RATES	SPECIAL INSTRUCTIONS
Cotton	Banded Wing Whitefly Cotton Aphids (except in CA) Leafhoppers Plant Bugs Whiteflies Thrips	1 to 3 oz/A (0.045 to 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, such as Danitol® 2.4 EC Spray or Knack® Insect Growth Regulator (IGR) to comply with local IPM and resistance management programs.</p> <p>Whiteflies: DINOTEFURAN 70 SG may be tank mixed with <i>Knack</i> at labeled rates for improved knockdown of adults and extended residual control.</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. 			

CUCURBITS

CROPS	PESTS	PRODUCT RATES	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 <i>Momordica</i> 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 Flea Beetle Grasshopper Green Peach Aphid (suppression only) Green Stink Bug Harlequin Bug Melon Aphid (suppression only) Leafhoppers Leafminers Southern Green Stink Bug Squash Bug Thrips Whiteflies	FOLIAR: 1 to 4 oz/A (0.045 to 0.179 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, such as <i>Danitol 2.4 EC Spray</i> or <i>Knack IGR</i> to comply with local IPM and resistance management programs.</p> <p>Stinkbugs: Coverage is essential for adequate control. Use sufficient water volume to ensure good coverage.</p> <p>Aphids: <i>Dinotefuran 70 SG</i> may provide only suppression of established or heavy aphid populations. Control may require use of tank mixes with other labeled insecticides.</p>
	Green Peach Aphid (suppression only) Melon Aphid (suppression only) Leafhoppers Leafminers Southern Green Stink Bug Squash Bug Thrips Whiteflies	SOIL: 5 to 7.5 oz/A (0.226 to 0.33 lb ai/A)	

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.

FRUITING VEGETABLES

CROPS	PESTS	PRODUCT RATES	SPECIAL INSTRUCTIONS
Bell Pepper Chili Pepper Cooking Pepper Eggplant Ground Cherry Pepino Pimento Sweet Pepper Tomatillo Tomato	Brown Stink Bug Colorado Potato Beetle Conspere Stink Bug Cucumber Beetle Flea Beetle Grasshopper Green Peach Aphid (suppression only) Green Stink Bug Harlequin Bug Leafhoppers Leafminers Potato Aphid* Southern Green Stink Bug Squash Bug Thrips Whiteflies	FOLIAR: 1 to 4 oz/A (0.045 to 0.179 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>
	Colorado Potato Beetle Flea Beetle Grasshopper Green Peach Aphid (suppression only) Leafhoppers Leafminers Potato Aphid (suppression only) Thrips Whiteflies	Soil: 5 to 7.5 oz/A (0.226 to 0.33 lb ai/A)	<p>DINOTEFURAN 70 SG can be mixed and/or alternated with commonly used insecticides; such as <i>Danitol</i> or <i>Knack</i>, for better knockdown and/or improved control of pests</p> <p>Stinkbugs: Coverage is essential for adequate control. Use sufficient water volume to ensure good coverage.</p> <p>Aphids: Dinotefuran 70 SG provides only suppression of established or heavy aphid populations. Control may require use of tank mixes with other labeled insecticides.</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	SPECIAL IINSTRUCTIONS
Grape	Glassy-Winged Sharpshooter Grape Berry Moth (first and second generation only) Leafhoppers Mealybug Multi-colored Asian Lady Beetle Thrips	FOLIAR: 1 to 3 oz/A (0.045 to 0.132 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 14 days. For best results, time application before a damaging population becomes established.
	Glassy-Winged Sharpshooter Grape Phylloxera (suppression only) Leafhoppers Mealy bug Thrips Vine Mealybug	SOIL: 5 to 7.5 oz/A (0.226 to 0.33 lb ai/A)	Under severe pest pressure, use the higher recommended rates. For Mealybug control, apply between budbreak and pea-berry size. 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 can be mixed and/or alternated with commonly used insecticides, such as <i>Danitol</i> or <i>Knack</i> , for better knockdown and/or improved control of pests.

NOTE: Regardless of application method do not apply more than a total of 12 oz 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 (5 to 10 gals/A by air or 50 to 300 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.

Soil Application

- 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 7.5 oz of DINOTEFURAN 70 SG (0.33 lb ai) per acre per season.
- For drip application, prior to injection, mix specified dosage in sufficient carrier volume (minimum of 2 gals of water per 1 lb of product) to ensure uniform application and incorporation into the soil using drip or trickle irrigation water. Apply towards the end of the irrigation run to ensure the product does not leach past the root zone.

HEAD AND STEM BRASSICA

CROPS	PESTS	PRODUCT RATES	SPECIAL INSTRUCTIONS
Broccoli Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli Chinese Cabbage Chinese Mustard Cabbage Kohlrabi	Brown Stink Bug Cabbage Aphid (suppression only) Cucumber Beetle Flea Beetle Grasshopper Green Peach Aphid (suppression only) Green Stink Bug Harlequin Bug Leafminers Southern Green Stink Bug Squash Bug Whiteflies	FOLIAR: 1 to 4 oz/A (0.045 to 0.179 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. 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>Do not apply to vegetables grown for seed.</p> <p>DINOTEFURAN 70SG can be mixed and/or alternated with commonly used insecticides to comply with local IPM and resistance management programs.</p>
	Green Peach Aphid (suppression only) Cabbage Aphid (suppression only) Leafminers Whiteflies	SOIL: 5 to 7.5 oz/A (0.226 to 0.33 lb ai/A)	

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 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	SPECIAL INSTRUCTIONS
Amaranth (Chinese Spinach) Arugula (Roquette) 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	Flea Beetle Grasshopper Green Peach Aphid (suppression only) Leafhoppers Leafminers Potato Aphid (suppression only) Whiteflies	FOLIAR: 1 to 3 oz/A (0.045 to 0.134 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>
	Brown Stink Bug Cucumber Beetle Green Stink Bug Harlequin Bug Southern Green Stink Bug Squash Bug	FOLIAR: 3 oz/A (0.134 lb ai/A)	<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>
	Green Peach Aphid (suppression only) Potato Aphid (suppression only) Leafhoppers Leafminers Whiteflies	SOIL: 5 to 7.5 oz/A (0.226 to 0.33 lb ai/A)	<p>DINOTEFURAN 70 SG can be mixed and/or alternated with commonly used insecticides registered for this use for better knockdown and/or improved control of pests.</p> <p>Stinkbugs: Coverage is essential for adequate control. Use sufficient water volume to ensure good coverage.</p> <p>Aphids: DINOTEFURAN 70 SG provides only suppression of established or heavy aphid populations. Control may require use of tank mixes with other labeled insecticides</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 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.

Soil Application

- 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.

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, apply in band 2" or less in width and 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. Apply 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.

POTATO

CROP	PESTS	PRODUCT RATES	SPECIAL INSTRUCTIONS
Potato	Colorado Potato Beetle Flea Beetle Green Peach Aphid (suppression only) Potato Aphid (suppression only) Potato Leafhopper Psyllid	FOLIAR: 1 to 1.5 oz/A (0.050 to 0.066 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>
	Colorado Potato Beetle Flea Beetle Green Peach Aphid (suppression only) Potato Aphid (suppression only) Leafhoppers Psyllid spp. (suppression only)	SOIL: 6.5 to 7.5 oz/A (0.28 to 0.33 lb ai/A)	<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 can be mixed and/or alternated with other insecticides registered for this use for better knockdown and/or improved control of pests.</p> <p>Aphids: DINOTEFURAN 70 SG provides only suppression of established or heavy aphid populations. Control may require use of tank mixes with other labeled insecticides.</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 10 to 50 gals/A 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

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

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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Knack is a registered trademark of Valent U.S.A. Corporation

Danitol is a registered trademark of Sumitomo Chemical Company, Ltd.

***Danitol* is a restricted use pesticide.**

Manufactured for:

Valent U.S.A. Corporation

P. O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

EPA Reg. No. 59639-135

EPA Est. No. 67545-AZ-01

059639-00135.20090723.DINO70SG

[Sub Label 2]

DINOTEFURAN 70 SG

For control of sucking and chewing insects infesting ornamental plants grown in commercial, industrial, and outdoor residential areas, indoor and outdoor nursery and greenhouse ornamental production and turfgrass grown in outdoor commercial, recreational and residential 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).

For outdoor use only.



GROUP	4A	INSECTICIDE
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DINOTEFURAN 70 SG

For control of sucking and chewing insects infesting ornamental plants grown in commercial, industrial, and outdoor residential areas, indoor and outdoor nursery and greenhouse ornamental production and turfgrass grown in outdoor commercial, recreational and residential 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).

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. 59639-135
 EPA Est. No. 67545-AZ-01

NET WEIGHT _____ [OUNCES] [POUNDS]

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.

USER SAFETY REQUIREMENTS

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

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 TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

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

LIMITED WARRANTY

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

LIMITATION OF LIABILITY

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

PROMPT NOTICE OF CLAIM

Valent must be provided with prompt notice of any claim so that an immediate inspection of the affected property or plants can be made. To the extent applicable law allows such requirement, notice of a claim shall be given promptly to Valent, whether the claim is based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

NO AMENDMENTS

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

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.
Read and follow the entire label of each product to be used in the tank mix with this product.

APPLICATION INFORMATION

TURFGRASS

- Use DINOTEFURAN 70 SG 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. Also use DINOTEFURAN 70 SG for the suppression of chinchbugs and cutworms in turfgrass areas.
- Apply DINOTEFURAN 70 SG 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.
- Target the timing of DINOTEFURAN 70 SG applications at or just prior to or during egg laying of the target pests. The need for an application will 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.
- Do not make applications when the target site is saturated with water. Adequate distribution of the active ingredient cannot be achieved when this condition exists.

ORNAMENTAL PLANTS

- Apply DINOTEFURAN 70 SG 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.
- Make applications 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 is translocated throughout the plant. Make applications prior to buildup of the target pest.
- For outdoor and landscape ornamental broadcast applications, Do not 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.
- Prevent runoff or puddling of irrigation water following application.
- Keep children and pets off treated areas until spray has dried.
- Do not apply 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, add tank mix partners 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, add all products in water soluble packaging 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. Do not exceed the label dosage rate, and follow the most restrictive label precautions and limitations. Do not mix this product 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 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)

Select spray nozzles 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. Do not make 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. To avoid skips use marker dyes or foam aids.

Ground Application to Ornamental Plants

Apply DINOTEFURAN 70 SG 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 will absorb the active ingredient. Make applications 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 results from non-uniform distribution of treated water. If you have questions about calibration, 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.

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. Calibrate the system to uniformly apply the rates specified. If you have questions about calibration, 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

Apply DINOTEFURAN 70 SG 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 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 County Extension Service for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

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.

TURFGRASS

CROPS	PESTS	PRODUCT RATES	SPECIAL INSTRUCTIONS
Commercial Recreational Residential	Southern Mole Cricket Tawny Mole Cricket	3/4 lb/A (0.52 lb ai/A) (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 lb/A (0.52 lb ai/A) (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 lb/A (0.52 lb ai/A) (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 outdoor residential areas and outdoor nursery and greenhouse ornamental production.

CROPS	PESTS	PRODUCT RATES	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 to 2.2 oz/100 gals (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 outdoor residential areas, indoor and outdoor nursery and greenhouse ornamental production.

CROPS	PESTS	PRODUCT RATES	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 to 6.9 oz/100 gals (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.
• Do not apply more than a total of 3/4 lb of DINOTEFURAN 70 SG (0.52 lb ai) per acre per season. • Drench volume should be sufficient to wet soil without resulting in overflow or runoff through drain holes in pots.			

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep pesticide in original container.

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

Store in a cool, dry place.

Do not store diluted spray.

For help with any spill, leak, fire or exposure involving this material, call day or night 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

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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Valent U.S.A. Corporation
P. O. Box 8025
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