

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

September 2, 2010

Ms. Cheryl Wagner Helena Chemical Company c/o Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Updating the Storage & Disposal Language

Dear Ms. Wagner:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated August 5, 2010 for the following product(s):

Diazinon AG 500 Insecticide EPA Reg. No. 5905-248 Pro-Mate Bifenthrin GC 0.069% Plus Fertilizer EPA Reg. No. 5905-567

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on <u>nonrefillable</u> containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact Regina Foushee'-Smith at 703-605-0780.

Sincerely,

Richard J. Gebken

Product Manager

Insecticide Branch

Registration Division (7505P)

rease read instructions on reverse before completing form.	Folim	λ Registra	tion OPP Identifier Number	
United St Environmental Pro				
	• •	Amendn	ient	
Washington, D	DC 20460	Other		
	cation for Pesticide - Se			
1. Company/Product Number	2. EPA Product N	/lanager	Proposed Classification	
5905-248	Mark Suarez			
Company/Product (Name)	PM#		X None Restricted	
Diazinon AG500 Insecticide	13			
5. Name and Address of Applicant (Include Zip Code)			ce with FIFRA Section 3(c)(3) al in composition and labeling	
Helena Chemical Company	to:	is similar or identic	at it composition and labeling	
c/o Wagner Regulatory Associates, Inc. P.O. Box 640	EPA Reg. No. Product Name			
Hockessin, DE 19707				
Check if this is a new address				
Amondment Funtsin holes	Section - II	41-b-1- i		
Amendment - Explain below.	Agency lett		o 	
Resubmission in response to Agency letter dated _	Me Too" A	pplication.		
Notification - Explain below.	Other - Exp	olain below.		
Explanation: Use additional page(s) if necessary. (F Notification of label change per PR Notice 2007-4. This notifi 156.10, 154.140, 156.144, 156.146, and 156.156. No other of understand that it is a violation of 18 U.S.C. Sec. 1001 to we consistent with the requirements 40 CFR 156.10, 156.140, 1 enforcement action and penalties under Sections 12 and 14	fication is consistent with the provision changes have been made to the labe willfully make any false statement to I 156.144, 156.146, and 156.156, this i	eling or the confidentia EPA. I further underst	al statement of formula of this product. and that if this notification is not	
	Section - III			
1. Material This Product Will Be Packaged In:				
Child-Resistant Packaging Unit Packaging	Water Soluble Packa	ging 2. Type of		
Yes* Yes No	Yes No		Metal Plastic	
		per X	Glass	
		tainer	Paper	
be submitted	J same grang.		Other (Specify) HDPE lined bags	
	4 Size(s) Retail Container	l —	Label Directions	
	2.5 gal., 5 gal., 30 gal., 55 gal., 250 gal.	X On La	abel	
	•	On La	abeling accompanying product	
6. Manner in Which Label is Affixed to Product	Lithograph	Other adh	esive backed label	
o. Marino in Whot East to Minage to Floadst	X Paper glued		30170 240104 14201 <u>.</u>	
	Stenciled		, , , , , , , , , , , , , , , , , , ,	
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) Cheryl Wagner Agent for Helena Chemical Company (302) 234 8551				
Cheryl Wagner Agent for Helena Chemical Company (302) 234 8551 Certification 6. Date Application				
I certify that the statements I have made on this form and a I acknowledge that any knowingly false or misleading state			'⊹'Received`	
both under applicable law.				
2. Signature	3. Title)	
Church Wagner	Agent for Helena Chemical Con	npany	1	
4. Typed Name	5. Date			
Cheryl Wagner August 5, 2010				

This is a reproduction of EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

August 5, 2010

Document Processing Desk (NOTIF) ATTN: Mr. Mark Suarez PM 13 Registration Division (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, Virginia 22202-4501 Wagner Regulatory Associates, Inc. P.O. Box 640 7460 Lancaster Pike, Suite 9 Hockessin, Delaware 19707

Dear Mr. Suarez:

Re: Diazinon AG500 Insecticide

EPA Registration Number 5905-248

Notice of Revised Storage & Disposal Label Language

Wagner Regulatory Associates, Inc., on behalf of Helena Chemical Company, hereby notifies the Agency that the storage and disposal section of the subject label as been revised in accordance with PR Notice 2007-4. Enclosed for the Agency's file is:

- Letter from Helena Chemical Company authorizing Wagner Regulatory to serve as Agent

- EPA Notification form (EPA Form 8570-1)

- One copy of revised labeling

Please feel free to contact me at (302) 234-8551 if you have any questions or require additional information.

Respectfully submitted,

Cheryl Wagner

Agent for Helena Chemical Company



HELENA CHEMICAL COMPANY

225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017 Phone: (901) 761-0050

May 3, 2010

US Environmental Protection Agency Office of Pesticide Programs 1200 Pennsylvania Ave. NW Washington, D.C. 20460

> Re: Designation of Agent for: Helena Chemical Company (EPA Company no. 5905) 664 Moore Road Memphis, TN 38120

Dear Sir or Madam:

This letter serves as notification that our company has appointed Wagner Regulatory Associates, Inc. ("WRA") to serve as Agent on our company's behalf regarding US EPA regulatory matters relative to Helena's existing registered products, products pending registration and future registration applications. WRA is based at 7460 Lancaster Pike, Suite 9, Hockessin, Delaware 19707.

Helena requests the EPA to accept registration submissions and inquiries from WRA for Helena products and authorizes the EPA to provide registration correspondence to WRA for Helena products.

Thank you for your time and assistance. Please feel free to call me at if you have any questions. This appointment will remain in effect until such time as it is revoked in writing by Helena.

Respectfully submitted,

Dave Thomas

Vice President - Marketing

cc: WRA Inc.

RESTRICTED USE PESTICIL DUE TO AVIAN AND AQUATIC TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

DIAZINON AG500

Insecticide

For control of certain insects on fruits, nuts, vegetables, and ornamentals grown outdoors in nurseries

ACTIVE INGREDIENT: Diazinon:

O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

NERT INGREDIENTS*

TOTAL 100.0%

Contains 4 lbs. diazinon per gallon *Contains xylene range aromatic solvent

KEEP OUT OF REACH OF CHILDREN WARNING

	FIRST AID
	Contains an organophosphate that inhibits cholinesterase
IF ON SKIN OR	Take off contaminated clothing
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
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 treatment advice.
IF	Call a poison control center or doctor immediately for treatment advice.
SWALLOWED:	Do not induce vomiting unless told to by a poison control center or doctor.
	Do not give any liquid to the person.
	Do not give anything by mouth to an unconscious or convulsing person.
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 a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains petroleum distillates (xylene range aromatic solvent) which may pose an aspiration hazard. Vomiting may cause aspiration pneumonia. Gastric lavage may be indicated if product was taken internally.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if absorbed through skin. Causes substantial but temporary eye injury. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contamination of food and feed. Food utensils such as tablespoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not contaminate ornamental fish ponds.

EPA Reg. No. 5905-248 SN: 0902/0709 EPA Est. No. First letters of product batch code indicate producing Establishment: 5905-GA-1=CG, 5905-AR-1=WA, 5905-CA-1=KC, 5905-IA-1=DI

NET CONTENTS: GALLON(S)

"RQ" Organophosphorus Pesticides, Liquid, Toxic, Flammable, UN3017 (Diazinon/Aromatc Solvent)

MANUFACTURED FOR HELENA CHEMICAL COMPANY 225 SCHILLING BOULEVARD, SUITE 300

COLLIERVILLE, TN 38017 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 **G** on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators, and other handlers using engineering controls must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves, such as barrier laminate, butyl or nitrile rubber ≥ 14 mils, or Viton ≥ 14 mils if mixing or loading
- Chemical resistant apron if mixing or loading

See engineering controls for additional requirements.

Handlers performing tasks, such as cleaning equipment or spill clean-up for which engineering controls are not feasible must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as barrier laminate, butyl or nitrile rubber ≥ 14 mils, or Viton ≥ 14 mils
- Chemical resistant footwear plus socks
- Chemical resistant apron if exposed to the concentrate
- · Goggles, face shield, or safety glasses
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a cannister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or cannister with any R, or P, or HE prefilter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides that provides dermal and inhalation protection [40 CFR 170.240 (d)(4)], and must:

- --wear the personal protective equipment required for mixers/loaders using engineering controls;
- --wear protective eyewear if the system operates under pressure; and
- --be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, chemical resistant footwear and the respirator specified in the PPE section of this labeling for handlers not using engineering controls.

Applicators using motorized ground equipment and flaggers supporting aerial applications to lettuce must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d)(5)] for dermal protection. In addition, applicators must:

- --wear the personal protective equipment required in the PPE section of this labeling for handlers using engineering controls;
- --either wear the respirator specified for handlers not using engineering controls or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the respirator specified for handlers not using engineering controls;
- --be provided and have immediately available for use in an emergency when they must exit the cab in the treated area, coveralls, chemical resistant footwear, and, if not already using one, the respirator specified for handlers not using engineering controls;
- --take off any PPE that was worn in the treated area before reentering the cab, and
- --store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

Exception: For application to lettuce, see directions for use for a special exception to these engineering controls requirements. Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When entering or leaving an aircraft contaminated with pesticide residues, pilots must wear chemical resistant gloves and must store used gloves in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cockpit.

Note: Aerial applications are permitted only on lettuce.

USER SAFETY RECOMMENDATIONS

Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by 5Aug2010 revised storage & disposal

cleaning of equipment or disposa equipment washwater. This pesticide is highly ic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

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

Reformulation or repackaging of this product is prohibited.

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 worn over long sleeve shirt and long pants
- · Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear if overhead exposures

Notify workers of the application by warning them orally and by posting warning signs at entrance to treated areas.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry place. Open dumping is prohibited.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (for example, street drains). If pesticide, spray mixture, or rinsate cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) 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 ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

REFILLABLE CONTAINER: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with



WORK SAFETY RULES

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling Diazinon AG500, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See **FIRST AID** section of this label. When handling this product, wear the personal protective equipment listed on this label.

GENERAL INFORMATION

Diazinon AG500 is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses. Do not use in barns or dwellings. Do not use on livestock. Aerial application is prohibited, except as allowed on the label for use on lettuce.

In the directions for use which follow, best control is obtained when application is made when infestation is noticed.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result.

Do not use water from treated cranberry/watercress beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

Note: The California Department of Pesticide Regulation has set a 5-day reentry period for diazinon on peaches and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

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

CHEMIGATION STATEMENT APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION

Diazinon AG500 may be applied alone or in combination with other pesticides registered for application through irrigation systems. Apply this product only through sprinkler, including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move, flood (basin) furrow, border, or drip (including surface and subsurface) irrigation systems. Do not apply this product through any other type of irrigation system.

Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon AG500 with other tank mix partners, please contact your local Helena Chemical Company sales representative. Note: Do not mix Diazinon AG500 with any formulation of captan or Captec® because crop injury may occur.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

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.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

Do not apply when wind speed favors drift beyond the area intended for treatment.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Helena Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water systems 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 a least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There

shall be a complete physical brea ir gap) between the outlet end of the fill pipe a etop or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

SPRINKLER CHEMIGATION

- 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.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain 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.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. 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.
- 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.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.

OPERATING INSTRUCTIONS

- 1. Determine the acreage to be treated by the sprinkler system.
- 2. Measure the appropriate amount of Diazinon AG500 needed to treat the acreage to be treated. Refer to the specific directions for use for the application rate and the amount of water per acre.
- 3. Add the pre-measured Diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if Diazinon AG500 is tank mixed with other pesticides registered for sprinkler chemigation application.
- 4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
- 5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
- 6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

FLOOD (BASIN) FURROW AND BORDER CHEMIGATION (SOIL DRENCH USES)

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a) 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.
- b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- c) 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 for the supply tank when the irrigation system is either automatically or manually shut down.
- d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e) 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.
- f) 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.

DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION (SOIL DRENCH USES)

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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pipe 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 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.

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.

SPRAY EQUIPMENT

Applications of Diazinon AG500 using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control.

To avoid spray drift, do not apply when conditions favor drift from beyond the target area. Avoid overlap because crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

For more information on spray equipment and calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult your local or state agricultural authorities.

MIXING PROCEDURES

Thoroughly clean spray equipment before using this product. Prepare only the amount of spray mixture needed for the immediate application. Vigorous agitation is necessary for proper dispersal of this product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand in the spray tank overnight. Flush the spray equipment thoroughly following each use.

1. Diazinon AG500 Alone:

Add ½ of the required amount of water to the mix tank. With the agitator running, add the Diazinon AG500 to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Diazinon AG500 has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

2. Diazinon AG500 in Tank-Mixtures:

Note: Do not mix Diazinon AG500 with any formulation of Captan or Captec® because crop injury may occur. Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon AG500 with other tank mix partners, please contact your local Helena Chemical Company sales representative. When using Diazinon AG500 in tank mixtures, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' labels. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

Add ½ of the required amount of water to the mix tank. Start the agitator running before adding any tank-mix partners. Add tank-mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulisifiable concentrates. Always allow each tank-mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and until all of the mixture has been applied.

PREHARVEST INTERVAL

The required days to wait between the last application and harvest are given in () after each crop name.

FRUIT AND NUT CROPS

Diazinon AG500 may be applied using ground application equipment as specified in the following table. This table indicates the *minimum* amount of water that can be used for application. The rate of Diazinon AG500 for concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the rate calls for 1 pt. of Diazinon AG500 in 100 gals. of water, this amounts to 3-4 pts. of product per acre when applied at the usual dilute ground spray volumes of 300-400 gals. of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the **COMMENTS** section for individual crops.

Note: To protect bees, do not apply this product to fruit trees when trees or substantial numbers of weeds in the orchard are in bloom.

Diazinon AG500 may be used during dormancy on deciduous trees and vines. When mixing with spray oils, follow oil manufacturer's use directions.

CROP	GROUND APPLICATION MINIMUM GALS./ACRE		
	Dilute	Concentrate	
Almonds*	100	20	
Apricots	100	20	
Blackberries**	100	20	
Blueberries	100	20	
Boysenberries**	100	20	

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Cherries	100	20
Cranberries	15	·
Dewberries**	 100	20
Figs*	100	20
Filberts***	250	20
Loganberries**	100	20
Nectarines	 100	20
Peaches	100	20
Plums	100	20
Prunes	100	20
Raspberries**	100	20
Strawberries	100	20

FRUIT AND NUT CROPS

	FRUIT AND I		
CROP	PEST	RATE	COMMENTS
ALMONDS (California Only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borers, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Do not apply more than 6 p		Apply in 100 gals. water plus 2-3 gals. dormant oil or 1-1½ gals. superior type oil. Apply during the dormant season only. 9 gals. of oil per acre. ar during the dormant season only.
			ions can be controlled only with consecutive
APRICOTS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 pt. per 100 gals. water	Apply as a dormant spray only once per year. When using spray oils, follow spray oil manufacturer's use directions.
	Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 pt. per 100 gals. water	Apply when infestation is noticed.
	Olive Scale Crawler	½ pt. plus 1½ gals. of light medium horticultural oil per 100 gals. of water	Apply when crawlers are present.
	Apricot Mealybug	1 pt. per 100 gals. water	Apply as a cover spray from petal fall to June.
	 application and 2) a maximularget pest. For in-season applications controlled only with consect The REI is 4 days. 	ons are allowed um of one as an i s, apply every o	per year: 1) a maximum of one as a dormant in-season foliar application regardless of other year unless pest infestations can be
BLUEBERRIES (7)	Cranberry Fruitworm, Cherry Fruitworm, Blueberry Maggot, Aphids, Thrips, Two-spotted Spider Mite	1 pt. per 100 gals. water	Apply when infestation occurs.
	Fire Ants	1 pt. per 100 gals. water	To aid in the control of fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches around each mound. Apply gently to avoid disturbing ants. Use equipment

^{*}CA Only
**CA, OR, WA Only
***OR, WA Only

		ons are allowed	a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours. acre per application. per year: 1) a maximum of one as an integest and 2) a maximum of one for control of
CANEBERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California,	Raspberry Fruitworm Raspberry Crown Borer	1 qt. per acre 2 qts. per	Apply when insects occur. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). Make application when blossom buds separate. Apply a single application in a minimum of
Oregon, and Washington Only) (7)	(Raspberry Root Borer)	acre	100 gals. of water per acre as a drench to the crown and lower canes in the spring before buds break.
	 Do not apply more than 2 q 	ts. of product per	acre per application.
	The REI is 5 days.		r regardless of the target pest.
CHERRIES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Eyespotted Bud Moth, Fruittree Leafroller, Leafhoppers, Black Cherry Aphid, San Jose Scale Crawler	1 pt. per 100 gals. water	Apply when infestation occurs.
	Cherry Fruit Fly	½ - 1 pt. per 100 gals. water	Apply when adult flies begin to emerge.
	Cherry Rust Mite	½ - 1 pt. per 100 gals. water	Apply to trees after harvest.
	application and 2) a maxim target pest.	ons are allowed um of one as an an apply every o	per year: 1) a maximum of one as a dormant in-season foliar application regardless of other year unless pest infestations can be
CRANBERRIES (7)	Blackheaded Fireworm (Rhopobota naevana)	2 qts. per acre	Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary. A maximum of 3 applications per season is permitted regardless of target pest.
	Cranberry Fruitworm	2 to 3 qts. per acre	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application after 14 days if necessary. A maximum of 3 applications per season is permitted regardless of target pest.
	Cranberry Tipworm	2 qts. per acre	Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary. A maximum of 3 applications per season is permitted

	T)		Irdiese of target poet
	Do not make more than 3 a	polications per w	ear regardless of the target pest.
	Do not use water from irri	igated or floode	d cranberry bed for drinking purposes or to EPA-approved diazinon labels.
FIGS (California Only)(5)	Vinegar flies- <i>Drosophila</i> spp., Dried fruit beetle	1 pt. per 100 gals.	Apply 1 pt. per 100 gals. water per acre. Apply when infestation occurs.
	 Do not apply more than 1 p Make a maximum of one ap The REI is 4 days. 	t. of product per	acre.
FILBERTS (HAZELNUTS) Oregon and Washington		1 pt per acre	Apply as a thorough cover spray in 250 to 400 gals. of water per acre.
Only)(21)	 Do not apply more than 1 p Make a maximum of one a The REI is 18 days. 		acre. ar regardless of target pest.
NECTARINES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Oriental Fruit Moth, Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler, Peach Twig Borer	1 pt. per 100 gals. water	Apply when infestation occurs. Do not apply more than 4 pts. of product or 4 gals. of summer oil per acre.
	application and 2) a maximutarget pest.	um of one as an	per year: 1) a maximum of one as a dormant in-season foliar application regardless of
PEACHES (21)	controlled only with consectThe REI is 4 days.	utive annual trea	
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy		
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	1 pt. per 100 gals. water 1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs.
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler Peach Twig Borer, Parlatoria Scale	1 pt. per 100 gals. water 1 pt. per 100 gals. water 1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs.
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler Peach Twig Borer, Parlatoria Scale Oriental Fruit Moth	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs. Apply at 100% petal fall.
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler Peach Twig Borer, Parlatoria Scale Oriental Fruit Moth Leafhoppers	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs. Apply at 100% petal fall. Apply when infestation occurs.
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler Peach Twig Borer, Parlatoria Scale Oriental Fruit Moth	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs. Apply at 100% petal fall.
PEACHES (21)	controlled only with consect The REI is 4 days. San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler Peach Twig Borer, Parlatoria Scale Oriental Fruit Moth Leafhoppers White Peach Scale Do not apply more than 4 p A maximum of two application and 2) a maximutarget pest.	1 pt. per 100 gals. water 1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 4 pts. of product or 6 gals. of oil per acre. Apply only once during the dormant season. Apply when infestation occurs. Apply at 100% petal fall. Apply when infestation occurs. Apply post harvest timed to coincide with peak crawler and immature scale activity. I acre per application. per year: 1) a maximum of one as a dormant in-season foliar application regardless of other year unless pest infestations can be

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	l pean Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs		hant season.
	Brown Mite (Clover Mite), European Red Mite, Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	1 pt. per 100 gals. water	Apply when infestation occurs.
	application and 2) a maximutarget pest.	ons are allowed um of one as an s, apply every o	per year: 1) a maximum of one as a dormant in-season foliar application regardless of other year unless pest infestations can be
PRUNES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	1 pt. per 100 gals. water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Brown Mite (Clover Mite), European Red Mite	1 pt. per 100 gals. water	Apply when infestation occurs.
	Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	1/2 - 1 pt. per 100 gals. water	Apply when infestation occurs.
	application and 2) a maximutarget pest.	ions are allowed um of one as an s, apply every o	per year: 1) a maximum of one as a dormant in-season foliar application regardless of other year unless pest infestations can be
STRAWBERRIES (5)	Aphids, Two-spotted Spider Mite, Strawberry Leafroller	1 pt. per 100 gals. water per acre	Apply when pest occurs.
	Cyclamen Mite	1 qt. per 100 gals. water per acre	Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of the foliage.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	 Do not apply more than 1 q Make a maximum of one application per crop. The REI is 3 days. 		acre per application. on per crop and a maximum of one soil

VEGETABLE CROPS

For foliar or soil applications, Diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon AG500 may be applied using ground or aerial (lettuce only) application equipment as specified in the following table. Aerial application is prohibited except as allowed on the label for use on lettuce. This table indicates the minimum amount of water that can be used for application. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	GROUND APPLICATION MIN. GPA	MIN. GALS./ 1000 SQ. FT. (GROUND)	AERIAL APPLICATION MIN. GPA
Beans, Succulent	10	2	-
Beets, Red (Table)	10	2	-
Broccoli	10	2	-
Brussels Sprouts	10	2	-
Cabbage	10	2	•

Cantaloupes)	5) 1	- 1
Carrots		10	2	-
Casaba Melons		5	1	-
Cauliflower		10	2	-
Collards		10	2	-
Crenshaw Melons	·	5	1	-
Endive (Escarole)		10	2	-
Ginseng		10	2	-
Honeydew Melons		5	1	-
Kale		10	2	-
Lettuce, Head		10	2	5
Lettuce, Leaf		10	2	5
Muskmelons		5	1	-
Mustard Greens		10	2	-
Onions (Bulb and Green)		10	2	-
Peas, Succulent		10	2	-
Persian Melons		5	1	•
Radishes		10	2	-
Rutabagas		10	2	-
Spinach		10	2	-
Tomatoes		10	2	-
Watermelons		5	1	-
Watercress*		100	-	-

^{*}HI Only

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply in greenhouses.

NOTES: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see directions for individual crops) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches; for subterranean cutworms, incorporate 3-6 inches. (2) Diazinon will not control organophosphate-resistant leafminers.

VEGETABLE CROPS

0505	DEOX	DATE:	COMMENTO
CROP	PEST	RATE/	COMMENTS
		ACRE	
BEANS, SUCCULENT	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make more than oThe REI is 3 days.	ne soil applicat	ion per year regardless of target pest.
BEETS, RED (Table)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make more thanThe REI is 3 days.	one soil applic	ation per year regardless of target pest.
BROCCOLI, BROCCOLINI	Root Maggots	2-3 qts.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per	Apply in transplant water as a drench application when 200-300 gals of water are
		50 gals. water	used per acre. Apply recommended rate by
		Water	tractor mounted sprayer equipped with drop
			nozzles to direct spray to the base of the plant.
1			Note: Transplant water treatments may result

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)		in sta eduction due to plant stress at time of
•	Cutworms	2-4 qts.	transplanting. Broadcast just before planting and immediately
	Cutwomis	2-4 qts.	incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make moreThe REI is 4 days.	than one soil applic	cation per year regardless of target pest.
BRUSSELS SPROUTS	Root Maggots	2-3 qts.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per - 50 gals. water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make moreThe REI is 4 days.	than one soil applic	cation per year regardless of target pest.
CABBAGE	Root Maggots	2 - 3 qts.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per 50 gals. water	Apply in transplant water as a drench application when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make moreThe REI is 4 days.		cation per year regardless of target pest.
CARROTS	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Do not make moreThe REI is 3 days.	than one soil applic	cation per year regardless of target pest.
CAULIFLOWER, BROCCOFLOWER	Root Maggots	2-3 qts.	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. per	Apply in transplant water as a drench

	.)	50 gals. water	applic h when 200-300 gals of water are used per acre. Apply recommended rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	Do not make more thanThe REI is 4 days.	one soil applic	cation per year regardless of target pest.	
COLLARDS	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	 Do not make more than one soil application per year regardless of target pest. The REI is 4 days. 			
ENDIVE (Escarole)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	Do not make more thanThe REI is 4 days.	one soil applic	cation per year regardless of target pest.	
GINSENG (30)	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	³ ⁄ ₄ -1 pt.	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10-100 gals. of water per acre.	
	 Do not apply more than one application per year. Do not apply during flowering of three- or four-year old crops. Do not graze treated areas or feed treated forage to livestock. The REI is 3 days. 			
KALE	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	 Do not make more than one soil application per year regardless of target pest. The REI is 4 days. 			
LETTUCE (Head and Leaf) (14)	Cutworms	2 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	2 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	Aphids, Dipterous Leafminer	½ - 1 pt.	Apply when insects occur.	
	Do not make more than	one soil applic	cation per crop regardless of target pest.	

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•	 Do not make more than one foliar application, prop regardless of target pest. Aerial application is permitted on lettuce. EXCEPTION: Applicators applying to lettuce are permitted to use open-cab equipment provided they are wearing chemical-resistant headgear AND the personal protective equipment specified in this labeling for handlers not using engineering controls. The REI is 3 days. 			
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and WATERMELONS (3)	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	Aphids, Dipterous Leafminer, Thrips, Striped Cucumber Beetle, Melonworms, Leafhoppers, Spider Mites	½-1½ pt.	Apply when infestation occurs.	
	 Do not make more than one soil application per year regardless of target pest. Do not make more than one foliar application per year regardless of target pest. The REI is 3 days. 			
MUSTARD GREENS	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	Do not make more thanThe REI is 4 days.	one soil appli	cation per year regardless of target pest.	
ONIONS (Bulb and Green), GARLIC, LEEKS, SPRING ONIONS OR SCALLIONS, JAPANESE BUNCHING	Onion Maggots	2-4 qts.	Broadcast just before planting and mix into the top 3-4 inches of soil. Note: Diazinon will not control organophosphate-resistant onion maggots.	
ONIONS, GREEN SHALLOTS, GREEN	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
ESCHALOTS	 Do not make more than one soil application per year regardless of target pest. The REI is 3 days. 			
PEAS, SUCCULENT	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	 Do not make more than one soil application per year regardless of target pest. The REI is 3 days. 			
RADISHES	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See SOIL INCORPORATION note.	
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.	
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
	 Do not make more than one soil application per year regardless of target pest. The REI is 3 days. 			
RUTABAGAS	Cabbage Maggot	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil to a depth of 4 inches.	
	Do not make more thanThe REI is 4 days.	one soil appli	cation per year.	
SPINACH	Cutworms	2-4 qts.	Broadcast just before planting and immediately	

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			incorp. le into the soil. See Soil Incorporation note.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	 Do not make more than one soil application per year regardless of target pest. The REI is 3 days. 		
TOMATOES	Cutworms	2-4 qts.	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	1 qt.	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	 Do not make more than one soil application per year regardless of target pest. The REI is 2 days. 		
WATERCRESS (Hawaii Only) (5)	Cyclamen Mites	1 pt.	Apply in 100 gals, of water. Apply as a thorough cover spray. Spray should be directed into the crowns and growing tips of plants.
	 Do not make more than one foliar application per growing season. The REI is 4 days. 		

ORNAMENTAL STATEMENT

Before treating a large number of ornamental plants with Diazinon AG500 alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 to 10 days prior to treating large areas to reduce the possibility of plant injury.

INSECT	TROL ON ORNAMENT	ALS GROWN	OUTD S IN NURSERIES
CROP	PEST	RATE	
			COMMENTS
ARBORVITAE, AZALEA, BIRCH, BOXWOOD, CAMELLIA, CARNATION, CHRYSANTHEMUM, CRABAPPLE, DOGWOOD, DOUGLAS FIR, ELM, EUONYMUS, GLADIOLI, HAWTHORN, HOLLY, HONEY LOCUST, HONEYSUCKLE, JUNIPER, LILAC, LILY, LOCUST, MAPLE, MARIGOLD, OAK, PANSY, PETUNIA, PINE, ORNAMENTAL PLUM, POPLAR, RHODODENDRON, ROSE, SCOTCH PINE, SPIREA, SPRIIGE SYCAMORE	Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetles, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leaftier, Privet Mite, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mite, Juniper Webworm, Whiteflies	1/2 fl. oz. per 3 gals. water or 1 pt. per 100 gals. of water	Apply the recommended rates. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage.
SPRUCE, SYCAMORE, WAX PLANT (Hoya), WILLOW, YELLOWWOOD, and YEW	Whiteflies Apple-and-Thorn Skeletonizer, Cotoneaster Webworm, European Pine Sawfly, Fall Webworm, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar Mimosa Webworm	1½ fl. oz. per 3 gals. of water or 2 pts. per 100 gals. of water ½ fl. oz. in 3 gals of water or 1 pt. in 100 gals. of	Apply as a thorough foliar spray when adults first appear. Try to spray underside of leaves and penetrate dense foliage.
	 water Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury the plants may occur. Note: 1 fl. oz. = 2 tablespoons; 16 fl. oz. = 1 pint The maximum application rate on all ornamentals is 2 pts. per acre. Make a maximum of one application per crop cycle. The REI is 7 days for flowers and other commercial ornamentals grown for cutting. The REI is 2 days for all other commercial ornamentals. Application is permitted only on commercial ornamentals grown outdoors in nurseries. 		

CONDITIONS OF SALE- LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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