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



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

April 19, 2005

Ms. Anna Stoops E.I du Pont de Nemours & Company DuPont Crop Protection Stine-Haskell Research Center P.O. Box 30 Newark, DE 19714-0030

Dear Ms. Stoops:

Subject:

Revised Labeling for DuPont Steward Insecticide (Indoxacarb): Addition of Supplemental Labeling for Overhead Sprinkler Chemigation on Alfalfa, Cotton, and Peanut in Certain States

EPA Reg. No. 352-598

Your Submission Dated March 24, 2005

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes before you release the product for shipment bearing the amended labeling:

- In the application table on page 3 of the main label, reverse the numbers appearing in the column entitled "Acres Treated per Gal. of Steward" so that the smaller number is listed first in the range.
- On page 1 of the supplemental label in the right column, first paragraph:
 - 1. Modify the first sentence "See Section 3 Federal Specimen Label for specific application rate by pest and crop." by either deleting the word "Specimen" or changing it to "Product".
 - 2. Modify the sentence "Do not apply more than 45 fluid oz (0.44 lbs a.i.) STEWARD per crop" so that it reads "...STEWARD per acre per crop."

A stamped copy of the main and supplemental label is enclosed for your records. Submit one copy of your entire final printed labeling before you release the product for shipment. Please note that the Agency may request that you incorporate this supplemental label into the main product label in the future. In the interim, all new submissions for this product should always include the supplemental label in conjunction with the main product labeling. If you have any questions, please contact Ann Hanger at (703) 306-0395 or hanger.ann@epa.gov.

Sincerely yours,

John Hebert

Product Manager 7

Insecticide/Rodenticide Branch Registration Division (7505C)



DuPont™ Steward®

insecticide

Suspension Concentrate

Contains 1.25 lbs. Active Ingredient per gallon.

By Weigh
-
14.5%
85.5%
100%

EPA Reg. No. 352-598

NET CONTENTS:

Establishment No.: 34704-MS-2

ACCEPTED with COMMENTS In EPA Letter Dated:

APR 19 2005

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

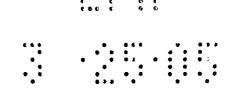
PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: 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 ON SKIN OR CLOTHING: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for 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 1-800-441-3637 for emergency medical treatment information.



PRECAUTIONARY STATEMENTS (cont'd) HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution! Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing (dust, vapor or spray mist). Remove contaminated clothing and wash clothing before reuse.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber), all \geq 14 mls.

Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinsewater. Do not apply where/when conditions could favor runoff. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

DIRECTIONS FOR USE

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

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) of 12 hours.

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, wear:

Coveralls over long sleeved shirt and long pants Socks plus chemical resistant footwear

Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber), all ≥14 mls.

DuPont™ STEWARD® should be used only in accordance with recommendations on this label or in separate DuPont supplemental labeling available through local dealers.

DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by DuPont. User assumes all risks associated with such non-recommended use.

GENERAL INFORMATION

STEWARD® is a suspension concentrate that can be applied as a foliar spray to control many important insects. STEWARD® is diluted with water for application.

Do not formulate this product into any other End-use products without written permission of DuPont.

Do not use in greenhouses.

CHEMIGATION: Refer to supplemental or Special Local Need (SLN) labeling for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental or SLN labeling on chemigation is followed.

Always shake well before use.

INTEGRATED PEST MANAGEMENT

DuPont supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

BENEFICIAL ARTHROPODS

Other than reducing the target pest species as a food source, STEWARD® helps conserve certain beneficial arthropods, including parasitic wasps, predatory mites, big-eyed bugs, damsel bugs, minute pirate bugs, and spiders. While these beneficials cannot be relied upon to control pests, they are of potential value and can be monitored along with pests in pest management programs on these crops.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of STEWARD® based on locally determined economic thresholds. More than one treatment of STEWARD® may be required to control a population of pests.

RESISTANCE

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of resistant management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local agricultural authorities for details.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

STEWARD® applications should target eggs and small instar larvae.

Follow-up treatments of STEWARD® should be applied, as needed, to keep pest populations within threshold limits. STEWARD® should be applied at 5 to 7 day intervals to maintain control.

Use sufficient water to obtain thorough, uniform coverage.

For aerial application, use a minimum of 3 gals. water per acre (gpa) [minimum of 5 gals water per acre in Arizona and California]. For ground application, use a minimum of 5 gals. water per acre. Higher gallonage will provide better coverage and performance.

		DuPont™ STEWARD® Rate Per Acre		Acres Treated per	Last Application	
Crops	Insects	Lbs. A.I.	Fluid Ounces	Gal. of STEWARD®	Days to Harvest	REI
Alfalfa	Alfalfa caterpillar Alfalfa weevil larvae Beet armyworm Egyptian alfalfa weevil larvae Granulate cutworm	0.065 - 0.11	6.7 - 11.3	19 - 11.5	7	12 hrs.
	Potato leafhopper (except California) (suppression only) Western yellowstriped armyworm	0.09 - 0.11	9.2 - 11.3	14 - 11.5		
	Not for use in alfalfa grown for seed or in alfalfa grown for alfalfa sprouts for human consumption.				For alfalfa, harvest is defined as when the crop is cut.	
Cotton	Cotton Bollworm 1 Tobacco Budworm 1	0.11	11.3	11.5	14	12 hrs.
	Cotton Bollworm in Transgenic Bt Cotton	0.09 - 0.11	9.2 - 11.3	14 - 11.5	1	
	Beet Armyworm Fall Armyworm Western yellowstriped armyworm	0.09 - 0.11	9.2 - 11.3	14 - 11.5		
	Cabbage Looper Soybean Looper	0.065 - 0.09	6.7 - 9.2	19 - 14		
	Cotton Fleahopper ² Lygus Bugs (Western U.S.) ³ Tarnished Plant Bug ²	0.09 - 0.11	9.2 - 11.3	14 - 11.5		
Peanut	Beet armyworm and Westerr applied to seedling cotton (le sufficient water to obtain tho Use of Adjuvants: In some sidense foliage, or less than op Cotton Bollworm and Toba STEWARD® should be mad stage to egg hatch. AL & GA only - STEWARD per acre) for control of low p cotton varieties that do not ceggs per 100 terminals and/o terminals, blooms, or squares larval threshold as described ingredient per acre (11.3 fl. of Tarnish Plant Bug and Cotto of light to moderate populativarmished plant bug or cotton control, fields should be scoueconomic thresholds. Consul qualified authorities to determ 3 Suppression only. Beet armyworm		12 hrs.			
reanut	Com earworm Fall armyworm Granulate cutworm Rednecked peanutworm (except California)	0.09 - 0.11	9.2 - 11.3	14 - 11.5	14	12 nrs.
	The minimum interval between treatments is 5 days. Do not apply more than 45 fl. oz. STEWARD® (0.44 lb. a.i.) per acre per crop.					
Soybean (except California)	Beet armyworm Cabbage looper Corn earworm Fall armyworm Green cloverworm Soybean looper Velvetbean caterpillar (suppression only) Yellowstriped armyworm	0.055 - 0.11	5.6 - 11.3	22.8 - 11.5	21	12 hrs.
	The minimum interval betwee Do not apply more than 45 fl NOTE: Do not feed or graze	oz. STEWARD® (0.44		op.		

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying DuPontTM STEWARD®. Fill spray tank 1/4 to 1/2 full of water. Add STEWARD® directly to spray tank. Mix thoroughly to fully disperse the insecticide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility - Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures.

This product can be mixed with pesticide products labeled for use on cotton in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

<u>Tank Mixing Sequence</u> - Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

- 1. Water soluble bags.
- 2. Water dispersible granules.
- 3. Wettable powders.
- 4. Water based suspension concentrates.
- 5. Water soluble concentrates.
- STEWARD® and other oil based suspension concentrates.
- 7. Emulsifiable concentrates.
- 8. Adjuvants, surfactants, oils.
- 9. Soluble fertilizers.
- 10. Drift retardants.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Surface Temperature Inversions sections of this label.

Controlling Droplet Size - General Techniques

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.• Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- · Do not apply as a ULV application.

BOOM LENGTH AND HEIGHT

- Boom Length (aircraft) The boom length should not exceed 3/4 of the wing length, using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.
- Boom Height (aircraft) Application more than 10 ft above the canopy increases the potential for spray drift.
- Boom Height (ground) Setting the boom at the lowest height which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they effect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CROP ROTATION RESTRICTIONS

Crops that are on this label and apple, broccoli, brussels sprouts, cabbage, cauliflower, Chinese broccoli, Chinese cabbage, Chinese mustard cabbage, kohlrabi, lettuce (head and leaf varieties), pear, pepper (bell and non-bell), potato, sweet corn and tomato may be planted immediately following harvest. Do not plant for food or feed any other crops not registered for use with indoxacarb for 30 days after last use.

STORAGE AND DISPOSAL

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

STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

NOTICE TO BUYER--Purchase of this material does not confer any rights under patents of countries outside of the United States.

The DuPont Oval Logo, DuPont[™], and STEWARD® are trademarks or registered trademarks of E. I. duPont de Nemours and Company.

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LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product; crop injury, or, injury to non-target crops or plants.

DuPont does not agree to be an insurer of these risks. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUEN-TIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTA-TION IS CROP PROTECTION. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLI-GENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

ACCEPTED with COMMENTS In EPA Letter Dated:

APR 19 2005 Under the Federal mecticide.

Fungicide, and Rodenticide Act, DuPont Crop as amended, for the pesticide registered under EPA Reg. No.

SUPPLEMENTAL LABELING

... DUPONT™ STEWARD® INSECTICIDE

FOR USE ON ALFALFA, COTTON, AND PEANUT VIA OVERHEAD SPRINKLER IN CERTAIN STATES

DUPONT™ STEWARD® INSECTICIDE

EPA Reg. No. 352-598

FOR USE ON ALFALFA IN THE STATES OF WASHINGTON, OREGON, NEVADA, UTAH, AND IDAHO; COTTON IN THE STATES OF ALABAMA AND GEORGIA PEANUTS IN THE STATES OF ALABAMA AND GEORGIA VIA OVERHEAD SPRINKLER IRRIGATION

DIRECTIONS FOR USE

Protection

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

IMPORTANT

BEFORE USING STEWARD® INSECTICIDE, READ AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

General Information

STEWARD® is a suspension concentrate liquid that can be applied as a foliar spray to control many important insect pests. STEWARD® is diluted with water for application.

Application Information, Rates and Timing

DuPont™ STEWARD® is recommended for control of the following pests:

Alfalfa - Beet Armyworm, Western Yellowstriped Armyworm, Granulate Cutworm, Alfalfa Caterpillar, Cabbage Looper Cotton - Beet Armyworm, Fall Armyworm, Western Yellowstriped Armyworm, Cabbage Looper, Soybean Looper Peanut - Beet Armyworm, Corn Earworm, Fall Armyworm, Granulate Cutworn, Red-necked Peanutworm (except CA) at the following rates of fluid ounces of product per acre applied through low pressure, overhead sprinkler or center pivot irrigation systems.

Alfalfa - 6.7 - 11.3 fluid ounces

Cotton -6.7 - 11.3 fluid ounces

Peanut - 9.2 - 11.3 fluid ounces

See Section 3 Federal Specimen Label for specific application rate by pest and crop.

For cotton and peanuts make sequential applications at 5 day intervals or until insect populations are brought below threshhold. For alfalfa, only one application can be made per cutting. Do not apply more than 45 fluid oz (0.44 lbs a.i.) STEWARD® per crop.

Steward must be kept continuously agitated in the injection tank to keep it in suspension and the proper rate per acre applied. Apply STEWARD® in 0.1 to 0.2 inches of water per acre via overhead sprinkler irrigation.

Specific Instructions for the Use of STEWARD" in Overhead Sprinkler Chemigation Systems.

Types of Chemigation Systems:

STEWARD® may be applied only through overhead sprinkler irrigation systems for control of numerous pests in alfalfa, cotton, and peanut. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply STEWARD® through any other type of irrigation systems.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of STEWARD® in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Mix thoroughly to fully disperse the insecticide; once dispersed, continued agitation is

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required. See container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic.

Injection into chemigation systems

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Inject the proper amount of STEWARD® into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of STEWARD® must provide for uniform distribution of STEWARD® treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying STEWARD®. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when STEWARD® is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

- 1. 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 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.
- 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.
- 6. 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. 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 the 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 break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks and system safety devices be plugged to prevent contamination of these areas.

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

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the Sysatem

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

This bulletin commains new or supplemental instructions for use of this product which do not appear on the EPA-registered package label. Follow the instructions carefully.

This labeling must be in the possession of the user at the time of pesticide application.

Read the Limitation of Warranty and Liability on the Section 3 Federal product Liabel before buying or using STEWARD(R) Insecticide. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use the Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

DR-426 031405