

PM 19 3125-321

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

3/3/94

MAR 17 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Karen S. Cain
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AGRICULTURE DIVISION
8400 Hawthorn Rd - Box 4913
Kansas City, MO 64120

Subject: Label Amendment Submission of 07/14/93 in Response to PR Notice 93-7
EPA Reg. No. 3125-321
BOLSTAR 6 EMULSIFIABLE INSECTICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW.
Washington, D.C. 20460-0001

30/9

Reason to Issue: To revise in accordance to Worker Protection Standard, PR Notice 93-7.

Date of Draft: 07/07/93(Pre-Reg)(C)

RESTRICTED USE PESTICIDE
 Due to acute and avian 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

BOLSTAR 6

BOLSTAR 6

Emulsifiable Insecticide

FOR THE CONTROL OF CERTAIN INSECTS ON COTTON

ACTIVE INGREDIENT:

<i>O</i> -Ethyl <i>O</i> -[4-(methylthio)phenyl] <i>S</i> -propyl phosphorodithioate	64%
INERT INGREDIENTS:	<u>36%</u>
	100%

Contains 6 lb *O*-Ethyl-*O*-[4-(methylthio)phenyl]*S*-propyl phosphorodithioate per gallon.
(This product contains aromatic petroleum distillates.)

U. S. Patent No. 3,947,529

EPA Reg. No. 3125-321

EPA Est. 3125-MO-1

Net ____ Gallons

STOP - READ THE LABEL BEFORE USE

KEEP OUT OF THE REACH OF CHILDREN

WARNING

AVISO

(See Statements of Practical Treatment and Other Precautions on Side Panel)
DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME

~~Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.~~

~~If you do not understand the label, find someone to explain it to you in detail.~~

~~**PRECAUCION AL USUARIO:** Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

~~**(TO THE USER:** If you cannot read or understand English, do not use this product until the label has been fully explained to you.)~~

ACCEPTED
with COMMENTS
in EPA Letter Dated



MAR 17 1994

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

3125-321

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN.

Do not get in eyes. Do not get on skin. Do not breathe spray mist. ~~Always wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse.~~ Do not contaminate feed or food. Keep out of reach of children. Should poisoning occur, obtain prompt medical aid. Prolonged exposure will result in cholinesterase depression.

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 F on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

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

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

To Physician: The toxic mode of action is to depress cholinesterase. The victim should be treated symptomatically. Atropine sulfate when administered in conjunction with 2-PAM is antidotal. Stomach contents should be removed by gastric lavage only.

STATEMENTS OF PRACTICAL TREATMENT

Organophosphate

If in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment get medical attention.

If swallowed, drink promptly a large quantity of egg white

or gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

If on skin, wash thoroughly with soap and warm water.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Use with care when applying in areas frequented by wildlife or adjacent to any body of water. When BOLSTAR 6 is applied by air at rates of 1-1/2 pints or greater per acre, applications should be made no closer than 100 feet of shorelines of fish bearing waters. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor run-off or drift from target areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are foraging. Additional information may be obtained from your Cooperative Extension Services.

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse.

Crops to be grown in rotation with cotton should not be planted within 60 days after last application of BOLSTAR 6.

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.

• Chemical-resistant footwear plus socks

• Chemical-resistant headgear for overhead exposure

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

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), notification to workers, 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 48 hours.

The REI is 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

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 over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton

IMPORTANT: Read these entire Directions and Conditions of Sale before using BOLSTAR 6 emulsifiable insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. 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, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

RESISTANCE: Some insects are known to develop resistance to insecticide used repeatedly on cotton. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. If resistance to this product develops in your area, this product alone, or other products with a similar mode of action, may not provide adequate control. Consult your state extension agent/agricultural advisor for insect resistance management strategies and recommended insect control methods for your area.

USE IN CHEMIGATION SYSTEMS

Types of Irrigation Systems: Apply BOLSTAR 6 only through sprinkler, including center pivot, lateral move, side roll, or overhead solid set irrigation systems. Do not apply BOLSTAR 6 through any other type of irrigation system.

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified for chemigation application for specific crops. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring: 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.

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

Required System Safety Devices: 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 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.

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.

Using Water from Public Water Systems: DO NOT APPLY BOLSTAR 6 THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

BOLSTAR 6 may be applied through any of the recommended types of irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

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

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 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, 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) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

Agitation: For application of BOLSTAR 6 alone, a chemical supply tank is not necessary for premixing since BOLSTAR 6 mixes well with water in the irrigation line. If a chemical supply tank is used, for application of BOLSTAR 6 alone or in combination with other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

Chemical Supply Tank Dilution: If a chemical supply tank is used, you must determine the required amounts of BOLSTAR 6 and water to mix in the tank.

The amount of BOLSTAR 6 needed equals the number of pints of BOLSTAR 6 to be applied per acre multiplied by the number of acres to be chemigated.

The amount of emulsion needed equals the gallons of emulsion delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

The amount of water needed equals the amount of emulsion needed minus the amount of BOLSTAR 6 needed.

For example, if you want to apply 1 pint of BOLSTAR 6 per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 1 pint BOLSTAR 6 per acre X 130 acres = 130 pints or 16.25 gallons of BOLSTAR 6. And, you need: 15 gallons per hour X 20 hours = 300 gallons of emulsion, minus 16.25 gallons of BOLSTAR 6 = 283.75 gallons of water.

Cleaning the Chemical Injection System: In order to accurately apply pesticides, the chemical injection system must be kept clean; free from chemical or fertilizer residues and sediments. Refer to your owners manual or ask your equipment supplier for the cleaning procedure for your injection system.

Flushing the Irrigation System: At the end of the application period, allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

SPRINKLER IRRIGATION SYSTEMS

All directions and requirements listed under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATIONS SYSTEMS section of this label must be followed for sprinkler irrigation systems.

In addition, the following directions apply to sprinkler irrigation systems.

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

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

Center-Pivot and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution or move of the system. DO NOT USE END GUNS. The system should be run at maximum speed.

Solid Set and Manually Controlled Linear Systems: Injection should be during the last 30 to 60 minutes of a regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. DO NOT USE END GUNS.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS BOLSTAR 6	REMARKS
Cotton	Tobacco budworm Cotton bollworm Lygus (Nymphs)	2/3 to 2	Apply specified dosage per acre by air or ground equipment alone or in sufficient water or refined vegetable oil for complete coverage. For best results during mid-to-late season or under hot dry conditions use a higher gallonage per acre for better coverage. For example, by air use up to 5 gallons of water per acre. When using oil, one (1) quart of total volume is recommended. Pre-mix material. Oil mixture should be sprayed within 12 hours to avoid compatibility problems. Always run a small jar compatibility test before large scale mixing as each batch of vegetable oil tends to differ greatly in composition.
	Fall armyworm Beet armyworm Pink bollworm	1 to 2	For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
	Fleahoppers	2/3	For light infestations of larvae apply 2/3 to 1 pint (1/2 to 3/4 lb active) per acre, or for moderate infestations apply 1 to 1-1/3 pints (3/4 to 1 lb active) per acre. Apply as needed with a 5 day interval. Heavy infestations, or infestations of large larvae: Apply 1 or 2 applications of the 2 pint (1-1/2 lb active) rate per acre until infestations are brought under control, then reduce application rates to 2/3 to 1-1/3 pints per acre. Allow at least 5 days between applications.
	Suppression of: Lygus (adults) Whiteflies (except sweet potato whitefly) Spider mites (Carmine and two-spotted)	2/3 to 2	In California and Arizona the minimum use rate is 1-1/3 pints (1 lb. active) per acre, regardless of degree of infestation of tobacco budworm or cotton bollworm. NOTE: In areas of frequent rainfall the higher rates and closer spray intervals (5-day minimum interval required) may be needed for adequate control.
	Thrips (Except western flower thrips) Fleahoppers Plant bugs (For early to mid-season use in Southern cotton growing areas)	1/3	In any case do not apply more than a total of 8 pints per acre with the last application no closer to harvest than 21 days in California and Arizona, or 14 days in all other states. Do not graze treated fields. Apply specified dosage per acre (by air or ground equipment) alone, in water, or in refined vegetable oil as stated above. Apply during early to mid-season when thrips, plant bug or fleahoppers reach economic threshold.
	<i>Heliothis</i> (Bollworm/budworm) Ovicidal	1/3	For best results, time application to correspond with peak egg deposition and hatch. Higher rates of BOLSTAR 6 or a tank mix with another larvicide will be required for control of larvae in the field.

NOTE: BOLSTAR 6 when used on cotton may be tank-mixed with GUTHION 2L or GUTHION 2S when GUTHION is used for control of cotton insects at the recommended rates of GUTHION.

Do not apply GUTHION alone within 14 days of harvest of cotton after applying tank mixes of BOLSTAR plus GUTHION. In California and Arizona, GUTHION alone should not be applied within 21 days of harvest of cotton after applying this tank mix.

RE-ENTRY STATEMENTS

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label heading~~

~~"Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING, area treated with BOLSTAR 6 on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, do not induce vomiting. (See Precautionary Statements on label).~~

STORAGE AND DISPOSAL

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. 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:

Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by an procedures approved by state and local authorities.

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by an procedures approved by state and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place, away from open flame and extreme heat, and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Miles Inc.
Crop Protection Products
Box 4913, Kansas City, MO 64120-0013