540 13:39

Mobey Corporation Agricultural Chemicals Divisios P.O. Box 4913 Kameas City, NO 64120

Gentlemen:

Subject: Monitor 4

EPA Registration No. 3125-280 Your Labeling Submitted July 31, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Pungicide, and Rodenticide Act (FIFRA), as smended, is acceptable provided that you:

- 1. Make the labeling change listed below before you release the product for shipment bearing the revised labeling.
 - The skull and crossbones and the word "FOISON" must appear in red on a background of distinctly contrasting color.
- 2. Submit five (5) copies of your final printed labeling before you release the product for shipment.



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CONCURRENCES								
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DATE								

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

If these conditions are not complied with, the registration will be subject to cancellation is accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert A. Forrest Product Hanager (14) Insecticide-Rodenticide Branch Registration Division (N7505C)

Enclosure

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Base Reg. (7311)

U.S. LABEL

Reason to Issue: To add prohibition against use on loose heading varieties of Chinese cabbage, such as bok choy.

Date of Draft: 7/30/91 (M) Supersedes Draft Dated: 4/17/90

EPA Reg. No. 3125-280

RESTRICTED USE PESTICIDE

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.

MONITOR® 4 Liquid Insecticide

For Effective Insect Control on Cole Crops, Cotton, Potatoes and Sugar Beets.

Contains: 4 lbs. O.S-Dimethyl phosphoramidothioate per gallon

KEEP OUT OF REACH OF CHILDREN

DANGER POISON

(See Statements of Practical Treatment and other Precautions on Rear Panel)

PELIGRO 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.)

ACTIVE INGREDIENT: O,S-Dimethyl phosphoramido-

thioate 40%

INERT INGREDIENTS: 60%

EPA Reg. No. 3125-280

STORE IN COOL DRY PLACE BUT NOT BELOW 15° F.

PROTECT FROM HEAT

ACCEPTED with COMMENTS In E. A Letter Dated: STOP - READ THE LABEL BEFORE USE

NET CONTENTS GALLONS

SEP 05 1991

MOBAY CORPORATION A Bayer USA INC. COMPANY

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DIRECTIONS FOR USE

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

IMPORTANT: Read these entire Directions and Conditions of Sale before using MONITOR 4 liquid 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. MOBAY 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 MOBAY AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

DIRECTIONS

Use the designated amount of product in the following gallons of water per acre unless otherwise noted:

Ground Application: 25 to 125 gallons of water Air Application: 3 to 10 gallons of water Chemigation: 1/8 to 1/4 inch of water

USE IN CHEMIGATION SYSTEMS

Types of Irrigation Systems

Apply MONITOR 4 only through sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. Do not apply MONITOR 4 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.

USE IN CHEMIGATION SYSTEMS (Continued)

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 MONITOR 4 THROUGH ANY IRRIGATION SYSTEM <u>PHYSICALLY CONNECTED</u> 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.

MONITOR 4 may be applied through any of the recommended types of irrigation systems which may be <u>supplied</u> by a public water system <u>only if</u> 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.

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Using Water from Public Water Systems (Continued)

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 the pesticide distribution is adversely affected.

Systems must us 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.

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

Posting Requirements

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Posting required for chemigation does not replace other posting and reentry interval requirements for farmworker safety.

<u>Agitation</u>

For application of MONITOR 4 alone, a chemical supply tank is not necessary for premixing since MONITOR 4 mixes well with water in the irrigation line. If a chemical supply tank is used for application of MONITOR 4, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

Chemical Supply Tark Dilution

If a chemical supply tank is used, you must determine the required amounts of MONITOR 4 and water to mix in the tank.

The amount of MONITOR 4 needed equals the number of pints of MONITOR 4 to be applied per acre multiplied by the number of acres to be chemigated.

Chemical Supply Tank Dilution (Continued)

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 \cdot . HONITOR 4 needed.

For example, if you want to apply 2 pints of MONITOR 4 per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 2 pints of MONITOR 4 per acre X 130 acres = 260 pints or 32.5 gallons of MONITOR 4. And, you need: 15 gallons per hours X 20 hours - 300 gallons of emulsion, minus 32.5 gallons of MONITOR 4 = 267.5 gallons of water.

Cleaning the Chemical Injection System

In order to accurate'v apply pesticides, the chemical injection system must be kept clean; free of chemical or is tilizer 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 or emitters 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 IRRIGATION 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 more 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 regular irrigation persod or as a separate 30 to 60 minute application not associated with a regular irrigation. DO NCT USE END GUNS.

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RECOMMENDED APPLICATIONS

CROP	INSECT	DOSAGE - Pints MONITOR 4	REMARKS	
	Aphids (Early Thrips season)	1/5 to 2/5 (0.1 to 0.2 1bs. AI/A)	Apply specified dosage per acre as needed up to 50 days before harvest and before bolls open. For white-flies, fleahoppers and low rates for aphids and thrips, a second application may be needed for heavy	
Cotton	Fleahoppers	2/5 (0.2 lb.AI/A)		
	Whiteflies (except Sweet potato whitefly)	1/2 to 1	infestations. For application by irrigation systems: Apply specified dosage per acre. Fol-	
	Beet armyworms Cabbage looper	1 to 2	low all directions given under the CHEMIGATION section of this label. Do not feed gin trash to livestock or allow animals to graze on treated areas.	
	Lygus Mites Aphids (Mid to Thrips late			
	season) Stink bugs (California & Arizona only)			
Broccoli Brussels Sprouts Cabbage (Includes tight heading varieties of Chinese cabbage, but do not use on loose heading varieties of Chinese cabbage,	Cabbage looper Imported Cabbageworm Diamondback moth larvae Aphids	1 to 2	In a Preventive Program: Beginning when the plants are small, use the l pint rate (0.5 pound active) per acre and apply at 7-day intervals. For Cleanup of Existing Populations: Use 1-1/2 to 2 pints (0.75 to 1.0 pound active) per acre. Do not apply, to Brussels sprouts later than 14 days before the first harvest, or to cauliflower later than 28 days before first harvest, or to cabbage later than 35 days before first harvest. For broccoli, the dosage rate of 1 pint per acre may be made up to 14 days before first harvest, but do not apply rates above 1 pint per acre within 21 days of first harvest.	
such as bok choy.) Cauliflower			For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.	

		MENDED APPLICAT DOSAGE - Pints		
CROP Celery (Florida only)	Dipterous leafminers	1 to 2 (0.5 to 1.0 1b active)	REMARKS Apply specified dosage per acre with ground equipment or through sprinkler irrigation systems pnly. Up to 10 applications may be made per season at 7 to 10 day intervals. Do not apply within 21 days of harvest.	
			For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.	
	Anhida		All celery must be trimmed in field and no trimming may be fed to livestock. Treated celery must not be dried for celery flakes.	
Potatoes	Aphids Potato tuberworm Cabbage looper Colorado potato beetle (except Long Island, New York) Flea beetles	1-1/2 to 2	Apply specified dosage (0.75 to 1.0 pound active) per acre. Apply in a 7 to 10 day preventive program or as necessary. Do not apply later than 14 days before harvest.	
	Potato leafhopper Cutworms (Foliage feeding) (Except California) Armyworms (Except California)		For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.	
	European corn borer (Except California) Lygus bug (Except California)		Resistance to Colorado potato beetle has occurred in other areas of New York. Consult your local extension service for details.	
Sugar beets (Arizona and	Green peach aphid	1 to 2	Apply specified dosage per acre a full coverage spray as needed, allowing 14 days between appli-	
California)	Beet armyworm	2	rotions. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CKEMIGATION section of this label.	
			Do not make more than 6 applications par crop season and not within 30 days of harvest. Sprays may be directed to obtain full foliar coverage.	

RESTRICTIONS

Do not apply under conditions involving possible drift to food, forage, or other plantings that might be damaged or the crops thereof rendered urfit for sale, use or consumption. Not for use or storage in or around the home.

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 within 24 hours after application unless appropriate protective clothing is worn. 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.

(The following may appear on supplemental labeling accompanying the product) 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: EANGER, area treated with MONITOR 4 on (date of application). Do not enter within 24 hours after application unless appropriate protective clothing is worn. 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, vomiting should be induced. (See Precautionary Statements on label).

PRECAUTIONARY STATMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

POISON

Keep out of Reach of children.

Do not inhale. Do not get on skin. Do not take internally.

Poisonous if swallowed, inhaled, or absorbed through skin. Rapidly absorbed through skin. Do not get in eyes, on skin or on clothing. Wear a mask or respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11. Wear natural rubber gloves, protective clothing and goggles. In case of contact, wash immediately with soap and water. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Keep all unprotected persons out of the operating areas or vicinity where there may be danger of drift. Do not store or transport with feed or food.

<u>ANTIDOTE</u>: Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Handling of Contaminated Articles: Clothing and rags receiving undiluted MONITOR 4 as a result of leaks, spills, or mishaps should be removed immediately and not reused. These contaminated articles should be disposed of in the same manner as the empty container; see container disposal section for directions. (Contaminated articles which should be discarded would include: hats, gloves, aprons, coats, boots, etc. not made of rubber or coated with rubber or other similar materials). Clothing receiving spray mist or droplets from the mixed, diluted MONITOR 4 should be removed and decontaminated before reuse. This clothing can be decontaminated by machine washing separately from other items with soap or detergent and bleach in hot water twice before reuse. Protective clothing and equipment should be washed down with detergent or soap and bleach water. Wash water from the cleaning of protective clothing or equipment should not be allowed to run off or otherwise enter water supplies.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Have patient lie down and keep quiet. Professional medical assistance should be secured immediately.

<u>If inhaled</u>, remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical assistance immediately.

<u>If on skin</u>, In case of contact, remove contaminated clothing and immediately wash with soap and water.

If in eyes, wash with plenty of water for at least 15 minutes. Get medical attention.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to birds and other wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water bodies or wetlands (e.g., lakes, streams, ponds, canals). Do not contaminate water by cleaning of equipment or disposal of wastes. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

STORAGE AND DISPOSAL

<u>Pesticide Disposal</u>: 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 ZPA Regional Office for guidance.

STORAGE AND DISPOSAL (Continued)

<u>Container Disposal</u>: <u>Metal</u> - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved state and local authorities. <u>Plastic</u> - 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, stax out of smoke.

Store in a cool, dry place 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 onen untainer in a manner as to prevent spillage. If container is leaking invert to p. leakage. If the container is leaking or material spilled for any reason or cause, ca. dam up spilled material to prevent runoff. Refer to Precautionary Statements on spilled material 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 Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

MONITOR is a Reg. TM of Chevron Chemical Company.