

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

53219-14

Term of Issuance:

Unconditional Registration

Name of Pesticide Product:

M/C BIOINSECTICIDE

NOTICE OF PESTICIDE:
[X] Registration
[] Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mycogen Corporation
5501 Oberlin Drive
San Diego, CA 92121-1718

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 53219-14".

Signature of Approving Official:

Janet L. Anderson

Date:

12/27/96

EPA Form 8570-6

Wnelson:12/27/96:308-8682:EPA Reg. No. 53219-14:CryIC delta-endotoxin of Bt encapsulated in killed Pseudomonas fluorescens

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Handwritten entries include '7501(u)', 'Wnelson', and '12/27/96'.

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EPA Reg. No. 53219-14

3. Submit five copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

M/C™

BIOINSECTICIDE

AQUEOUS FLOWABLE BASED ON THE CELLCAP® ENCAPSULATION SYSTEM

For control of caterpillar pests on vegetables, field crops, fruits, nuts, grapes, turf, stored products and ornamental and nursery crops.

ACTIVE INGREDIENT

A Cry1C derived delta endotoxin of *Bacillus thuringiensis* encapsulated in killed *Pseudomonas fluorescens*.....15%

INERT INGREDIENTS.....85%

TOTAL.....100%

One gallon of this product contains 1.31 pounds of delta endotoxin of *Bacillus thuringiensis* encapsulated in killed *Pseudomonas fluorescens*.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
See following pages for additional precautionary statements.

EPA Registration No. 53219 - 14

EPA Establishment No. 53219-WI-1

Net Contents:

M/C, CellCap, Mycogen, M and Design and the Rainbow Design are trademarks of Mycogen Corporation.

The CellCap encapsulation system is protected by U.S. Patent Number 4,695,455. U.S. Patent Numbers 5,128,133 and 5,246,852 and other patents pending.



Mycogen Corporation
5501 Oberlin Drive
San Diego, California 92121

ACCEPTED

DEC 27 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (7 U.S.C. 136-136c) and the pesticide registration provisions of the Act (7 U.S.C. 136c-136d), this pesticide is registered for use as follows:

EPA Reg. No. 53219-14

PRECAUTIONARY STATEMENTS

CAUTION - Hazards to Humans and Domestic Animals: May cause skin sensitization reactions in certain individuals. Avoid contact with eyes, skin or clothing.

Statement of Practical Treatment: If in eyes, flush with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling.

Environmental Hazards: 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 contaminate water by cleaning of equipment or disposal of equipment washwaters.

Personal Protective Equipment: Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

Follow manufacture'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: Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

For emergency medical information, call toll-free 1 (800) 228-5635 ext. 87

GENERAL INFORMATION

Mode of Action: This product is an insect stomach poison which must be eaten by targeted pests to be effective. Within seconds of ingestion, the active ingredient is dissolved and instantly begins destroying the insect's digestive tract. Insects stop feeding immediately after eating this product. Death occurs 1 - 5 days later due to disintegration of the digestive tract and the resulting starvation.

Residual Activity: This product is based on the CellCap Encapsulation System, which increases the residual activity of the active ingredient by protecting it from rapid environmental breakdown.

Tank Mix Compatibility: This aqueous-based formulation is physically compatible with a wide range of pesticides. Refer to **Tank Mixtures** section for specific use instructions.

Pre-harvest Interval: This product can be applied up to the day of harvest (zero days to harvest).

Insects Controlled: This product controls the listed caterpillar (larval Lepidoptera) pests, including those resistant to synthetic chemical pesticides. The single toxin in this product is derived from the Cry1C delta-endotoxin found in *Bacillus thuringiensis* var. *aizawai* (*Bta*), and is highly active on armyworms (*Spodoptera*, *Prodenia* spp., etc.), including beet armyworm, southern armyworm, fall armyworm, and yellow-striped armyworm.

Resistance Management: This toxin is also effective on diamondback moth larvae resistant to *Bacillus thuringiensis* var. *kurstaki* (*Btk*) products containing Cry1A toxins and can be used as an effective tool to manage resistance to these *Btk* toxins. Because the Cry1C derived toxin has been shown to have good activity on *Btk* resistant populations of this pest, it can be used to effectively control these populations. Since it contains only the Cry1C toxin, which has little or no cross resistance to the Cry1A toxins, it's use also reduces selection for continued Cry1A resistance when compared to mixed *Bt* toxin products.

This product may also be applied to transgenic crops expressing only *Btk* toxins, or to resistance management acres where *Btk* products may not be used.

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Beneficial Insects: This product does not harm beneficial insects (honeybees, lacewings, parasitic wasps, ladybird beetles, predatory beetles, flies, etc.)

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 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, and shoes plus socks.

NON - AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Application Timing

- Always target newly hatched or small larvae with spray applications so that insects are controlled before they cause extensive feeding damage. Make applications before older larvae tunnel or bore into buds, heads, stalks, or fruits and begin feeding inside the plant or fruit. Once larvae are protected inside the plant, they will be difficult to control with this, or other foliar applied products.
- To determine optimal timing of first application, scout fields regularly for the appearance of eggs and newly hatched larvae. Make the first application as soon as larvae begin to hatch. Repeat applications as needed to maintain larval control.

Mixing and Application

- Fill spray tank 3/4 full with water and add recommended amount of this product to tank. Mix thoroughly while adding remainder of water. Agitate as necessary to maintain suspension.
- Thorough coverage of the foliage is necessary for optimal performance of this product. Use sufficient volume of water to thoroughly wet upper and lower leaf surfaces. Do not apply to runoff. All application techniques and equipment should result in uniform and complete coverage of all leaf surfaces on the plant. Control of target insects is achieved only when susceptible stages of the insect eat the treated plant. Skips, streaks or untreated foliage below the canopy surface will result in reduced pest control.

- For water based conventional ground and aerial application, apply recommended amount of product in at least 2 gallons of water per acre. For most conventional ground application equipment, a minimum of 20 gallons of water per acre is necessary for good performance. Increasing water volume when crop growth is rapid and/or foliage is dense will improve crop coverage and the performance of this product.
- Use an approved spreader or spreader-sticker to improve coverage on hard to wet crops.
- This product may be mixed with a refined emulsifiable oil for ULV application. Before application, always determine physical compatibility of materials to be sprayed by performing a jar test.
- For CHEMIGATION instructions, see pages 10 - 11.

Tank Mixtures

- When tank mixing, add individual formulations to the spray tank as follows: wettable powders, flowables, this product, emulsifiable concentrates, water soluble liquids, and finally adjuvants, including emulsifiable oils.
- Maintain good agitation during the mixing and spraying operations to keep ingredients suspended.
- For **first time** use of a tank mixture, always determine physical compatibility of materials to be applied by performing a jar test.

Recommended Application Rates

Rates and frequency of applications will vary depending on intensity and type of larval infestations, and type of application equipment used. For aerial or low volume applications or when conditions interfere with good coverage, the higher recommended rates should be used.

Stand Alone Applications

(or when used in combination with products directed at non-caterpillar pests) 2-8 pints per acre

Tank Mix Applications

(when used with other products directed at the same caterpillar pests) 1-4 pints per acre

Hand Held Spray Application Equipment

- Spray to wet but not to runoff. Time the application as recommended in Application Timing section.
- For mixing small volumes, use 3 to 6 tablespoons (1.5 fl oz. to 3 fl oz.) of this product per gallon of water.
- For mixing large volumes, use 2-8 pints of this product per 100 gallons of water.

SMALL FRUITS AND BERRIES

CROPS SUCH AS:	INSECT PESTS	
Blackberry	Achemon sphinx-moth	Grape leaffolder
Blueberry	Amyworms	Gypsy moth
Caneberry	Blueberry leafroller	Leafrollers
Cranberry	Blueberry spanworm	Loopers
Currant	Brown spanworm	Obliquebanded leafroller
Grape	Cabbage looper	Omnivorous leafroller
Raspberry	Carob moth	Orange tortrix
Strawberry	Cherry fruitworm	Roughskinned cutworm
	Cutworms	Saltmarsh caterpillar
	Fruit tree leafroller	Tobacco budworm
	Green fruitworm	Western grape leaf skeletonizer
	Grape berry moth	

VEGETABLES (Leafy, Root and Tuber, Cucurbit, Brassica (cole), Artichoke, Asparagus, Okra and Watercress)

CROPS SUCH AS:		INSECT PESTS	
Artichoke	Lettuce	Alfalfa looper	Southern armyworm
Asparagus	Melons (Crenshaw, cantaloupe, honey ball, honeydew, melon hybrid, muskmelon, Persian watermelon)	Amyworms	Southwestern corn borer
Beet		Artichoke plume moth	Soybean looper
Bok Choy		Beet armyworm	Tobacco budworm
Broccoli		Cabbage budworm	Tomato fruitworm
Broccoli raab		Cabbage looper	Tomato pinworm
Brussels sprout	Napa cabbage	Cabbage webworm	Velvetbean caterpillar
Cabbage	Okra	Celery leaf-tier	Webworms
Cardoni	Onion	Corn earworm	Yellowstriped armyworm
Carrot	Parsley	Cross-striped cabbageworm	
Cauliflower	Parsnip	Diamondback moth	
Casaba	Pepper	European corn borer	
Celeriac	Potato	Fall armyworm	
Celery	Pumpkin	False celery leaf-tier	
Chicory	Radish	Green cloverworm	
Chinese broccoli	Radicchio	<i>Heliothis/Helicoverpa</i> spp.	
Chinese cabbage	Rutabaga	Homworms	
Cucumber	Salsify	Imported cabbageworm	
Eggplant	Shallots	Leafrollers	
Endive	Spinach	Loopers	
Escarole	Squash (Summer, Winter)	Melonworm	
Garlic	Sugar beet	Omnivorous leafroller	
Greens (collard, mustard)	Sweet potato	Pickleworm	
Green onion	Swiss chard	Potato tuberworm	
Horseradish	Tomato	Rindworms	
Kale	Turnip	Saltmarsh caterpillar	
Kohlrabi	Upland cress		
Leek	Watercress		
	Yam		

SPECIAL INSTRUCTIONS - VEGETABLES

For control of large larvae of armyworms, loopers, and *Heliothis/Helicoverpa* spp. tank mix this product with recommended synthetic insecticides.

HERBS AND SPICES

<u>CROPS SUCH AS:</u>		<u>INSECT PESTS</u>
Anise	Mint	Armyworms
Arugala	Oregano	Beet armyworm
Basil	Peppermint	Cutworms
Bay leaf	Sage	Diamondback moth
Chamomile	Tarragon	European corn borer
Chive	Thyme	Fall armyworm
Cilantro	Wintergreen	Green cloverworm
Coriander		<i>Heliothis/Helicoverpa</i> spp.
Dill		Imported cabbageworm
Fennel		Loopers
Marjoram		Saltmarsh caterpillar

NUTS, POME FRUIT, STONE FRUIT AND CITRUS

<u>CROPS SUCH AS:</u>		<u>INSECT PESTS</u>	
Almond	Peach	Cankerworm	Omnivorous leafroller
Apple	Pear	Carob moth	Orange tortrix
Apricot	Persimmon	Citrus cutworm	Oriental fruit moth
Cherry	Pistachio	Codling moth	Pandemis leafroller
Chestnut	Plum	Cutworms	Peach twig borer
Citrus	Pomegranate	Fall webworm	Pecan nut case bearer
Citron	Prune	Filbert leafroller	Redbanded leafroller
Filbert	Quince	Filbert webworm	Redhumped caterpillar
Grapefruit	Tangelo	Filbertworm	Roughskinned cutworm
Kumquat	Tangerine	Fruit tree leafroller	Speckled green fruitworm
Lemon	Walnut	Garden tortrix	Tent caterpillar
Lime	(English, Black)	Grape leaf folder	Tufted apple budmoth
Macadamia		Green fruitworm	Variogated leafroller
Nectarine		Gypsy moth	Walnut caterpillar
Orange		Humped green fruitworm	Western tussock moth
Pecan		Leafrollers	
		Navel orangeworm	
		Obliquebanded leafroller	

LEGUMES

<u>CROPS SUCH AS:</u>		<u>INSECT PESTS</u>	
Beans	Guar	Armyworms	Loopers
<i>Phaseolus</i> spp.	Jackbean	Beet armyworm	Podworm
<i>Lupinus</i> spp.	Lentil	Cabbage looper	Saltmarsh caterpillar
<i>Vigna</i> spp.	Pea	Cutworms	Soybean looper
Chick pea	Pigeon pea	Diamondback moth	Velvetbean caterpillar
Cowpea		Green cloverworm	
Fava bean		<i>Heliothis/Helicoverpa</i> spp.	
Garbanzo bean			

TURF, FLOWERS, BEDDING AND INDOOR PLANTS - (Including Greenhouse)
Production and Maintenance

CROPS SUCH AS:	INSECT PESTS	
Bedding plants	Armyworms	lo moth
Flowers	Azalea moth	Leafrollers
Ornamentals	Cabbage moth	Loopers
Turf	Cutworms	Oleander moth
	Diamondback moth	Omnivorous leafroller
	Ello moth	Omnivorous looper
	Fall armyworm	Sod webworms
	Fiery skipper	Tobacco budworm

SPECIAL INSTRUCTIONS - TURF

This product can be used at a rate of 1 to 4 quarts per 100 gallons of water or 1 to 4 ounces per 1000 square feet.

FIELD CROPS (Cotton, Tobacco, Cereal Grain, Forage Grass, Forage Legume crops plus Canola and Hops)

CROPS SUCH AS:		INSECT PESTS:	
Alfalfa (hay and seed)	Peanuts	Alfalfa caterpillar	Leafrollers
Barley	Peanut hay	Armyworms	Loopers
Buckwheat	Pea hay vine	Banded sunflower moth	Obliquebanded leafroller
Canola (rapeseed)	Rice	Beet armyworm	Omnivorous leafroller
Clover	Rye	Cabbage looper	Podworm
Corn	Safflower	Corn earworm	Saltmarsh caterpillar
(Field, Sweet, Seed, Popcorn)	Small grains (hay, grazing and silage)	Cotton bollworm	Southwestern corn borer
Cotton	Sorghum	Cotton leafworm	Soybean looper
Cowpea	Soybean	Cutworms	Spotted cutworm
Cowpea hay	Sudan grass	Diamondback moth	Sugarcane borer
Hops	Sugarcane	European corn borer	Sunflower headmoth
Jojoba	Sunflower	European skipper	Sunflower moth
Lespedeza	Tobacco	Fall armyworm	Tobacco budworm
Lupine	Trefoil	Green cloverworm	Velvetbean caterpillar
Millet	Triticale	Hornworms	Webworms
Oats	Velvet bean	<i>Heliothis/Helicoverpa</i> spp.	Yellowstriped armyworm
Pasture and range grasses (hay and silage)	Vetch	Imported cabbageworm	
	Wheat		

SPECIAL INSTRUCTIONS - CORN

Use this product when larvae are exposed and good coverage is possible. For control of armyworms, make the first application as soon as larvae begin to hatch or evidence of feeding in the whorls or leaves is observed. Begin treatment for corn earworm when upper ears begin silking. Multiple applications and highest labeled rates may be needed to control heavy infestations of armyworm.

SPECIAL INSTRUCTIONS - COTTON AND SOYBEANS

RATES:

- **Stand Alone** (or when tank mixed with products directed at non-caterpillar pests)

Use 2 to 8 pints of this product per acre for control of armyworms and loopers. Use 3 to 8 pints per acre for control of bollworms, budworms, and most other caterpillar pests. Rates and volumes of application should be adjusted as pest pressure and crop foliage increase. This product may be applied to transgenic crops expressing only *B.t* variety *kurstaki* (*Btk*) toxins for control of armyworms, or to resistance management acres where *Btk* toxins products may not be used.

- **Tank Mix** (when tank mixed with other products directed at the same caterpillar pests)

For caterpillar control, use this product at 1 to 4 pints per acre with recommended ovicides and larvicides. Higher rates within this range may be required for optimum control of budworms and bollworms.

FOREST, LANDSCAPE TREES AND SHRUBS

Production and Maintenance

<u>CROPS SUCH AS:</u>	<u>INSECT PESTS:</u>	
Christmas trees	Armyworms	Greenstriped
Forest	Bagworm	mapleworm
Landscape trees	Blackheaded budworm	Gypsy moth
Nursery trees	Browntail moth	Jack pine budworm
Ornamental conifers	Buckmoth caterpillar	Mimosa webworm
Shrubs	California oakworm	Pine butterfly
	Cankerworm	Redhumped caterpillar
	Douglas fir tussock moth	Saddleback caterpillar
	Elm spanworm	Spruce budworm
	Fall webworm	Tent caterpillar
	Fruit tree leafroller	Tortrix
		Western tussock moth

SPECIAL INSTRUCTIONS - TREES AND FORESTS

For mist blowers, mix specified amount in 10 gallons of water.

AQUATIC EMERGENT AND FLOATING PLANTS

<u>CROPS SUCH AS:</u>	<u>INSECT PESTS</u>
Water lily	Water lily leaf cutter
Cattail	Cattail caterpillar

SPECIAL INSTRUCTIONS - AQUATIC

Apply this product to emergent or floating vegetation in lakes, ponds, impounded water, streams, rivers, canals, swamps, marshes and wetlands at a rate of 1 to 4 quarts per 100 gallons of water or 1 to 4 ounces per 1000 square feet. Make applications when caterpillars are exposed and good coverage is possible.

TROPICAL AND OTHER FRUIT

<u>CROPS SUCH AS:</u>	<u>INSECT PESTS:</u>	
Avocado	Amorbia	Omnivorous leafroller
Banana	Banana skipper	Omnivorous looper
Date	Cabbage looper	Orange tortrix
Fig	Carob moth	Raisin moth
Kiwi Fruit	Citrus cutworm	Redhumped caterpillar
Persimmon	Fall webworm	Spanworm
Pineapple	Filbert webworm	Tent caterpillars
Pomegranate	Leafrollers	<i>Thecla basilides</i>
	Loopers	

SPECIAL INSTRUCTIONS - TROPICAL AND OTHER FRUIT

Application water volume should be sufficient to ensure good coverage of plant surfaces. For optimal results, use at least 50 gallons per acre. Concentrate application volumes are more effective than dilute.

STORED PRODUCTS

For the control of lepidopterous pests listed in the table below in food storage and processing facilities. For use in stored products such as stored raw agricultural commodities, grains and edible seeds, seeds for planting, seed sprout crops, birdfeed, nuts, and animal feed.

<u>CROPS SUCH AS:</u>		<u>INSECT PESTS</u>
Birdseed	Peanut	Almond moth
Condimental seed	Popcorn	Angoumois grain moth
Crop seed	Soybean	Indian meal moth
Dried fruit	Spices	Mediterranean flour moth
Grains	Sunflower seed	Potato tuber moth
Herbs	Tobacco	Tobacco moth

SPECIAL INSTRUCTIONS - STORED PRODUCTS

• BIN STORED DRIED PRODUCTS

Mix 2-4 pints of this product per 5-10 gallons of water for application to 500 sq. ft of stored products. Spray or sprinkle half the solution onto top surface of the stored product and mix thoroughly, using a rake or other devices to distribute it through the top 4". Then spray the other half of the solution and mix again. Alternatively, the spray solution can be applied to stored products as they are augered or loaded into storage. Only the products that will be on the top 4"-6" of the bin need to be treated. 10 gallons of spray solution should treat about 100 bushels of stored product.

• BAGGED OR BOXED PRODUCTS

Mix 2-4 pints of this product in 10 gallons of water and apply directly to stored products as they are bagged or boxed. Mix thoroughly before bagging.

FOOD STORAGE AND PROCESSING FACILITIES

Mix 2-4 pints of this product in 10 gallons of water and apply to cracks and crevices where dust may accumulate and targeted pests breed.

This product can be applied to stored commodities at any time. Treated commodities may be used any time after treatment.

CHEMIGATION

Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation systems. For best results use irrigation levels of 0.15 to 0.5 inches of water per acre.

Shake the product container well or otherwise agitate the product before pouring or pumping into a nurse tank. Product may be injected undiluted and does not require agitation in the nurse tank. Agitate the product again if shutdown period is longer than 36 hours.

If dilution of the product is required to obtain proper application rate, dilute in a 1 to 1 ratio of water to product and maintain continuous agitation during application. Agitate again after any shutdown period. Do not mix with nonemulsifiable oil.

When application is completed, thoroughly flush the injection system and sprinkler lines with water.

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

In center pivot systems the application of this product must be made continuously for the duration of the water application. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non uniform distribution of the treated water.

If you have questions about calibration, you should contact your State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water supplies are in place. 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 services an average of at 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 the point of pesticide introduction. As an option to the RPZ, 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.

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. 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 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.

BEST AVAILABLE COPY

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. 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.

STORAGE AND DISPOSAL

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

Storage: Keep container unopened until use. Store unused product in original container. In order to maximize the shelf life of this product, store at temperatures between 35° and 90°F.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMIT OF WARRANTY AND LIABILITY

This product conforms to the description on this label and is reasonably fit for the purpose set forth on this label when used according to the label directions and under the specified label conditions. THE MANUFACTURER DISCLAIMS ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Buyer and all users assume all risks and responsibility for loss or damage if this product is used, stored, handled, or applied under any condition not reasonably foreseeable or beyond the manufacturer's control, or not as explicitly set forth in this label. THE LIMIT OF THE MANUFACTURER'S LIABILITY SHALL BE THE PURCHASE PRICE FOR THE QUANTITY INVOLVED. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.