

Reg # 53871-4

PM-18

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

1994

ADRIAN KRYGSMAN  
FERMONE CORPORATION  
2620 N 37TH DR  
PHOENIX, AZ 85009

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 10/25/93 Response to PR Notice 93-7  
EPA Reg. No. 53871-4  
FERMONE BT WETTABLE POWDER

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 reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (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 not been reviewed or 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:**

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
- AND
- WITHIN one year from date of this acceptance.



**Recycled/Recyclable**  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

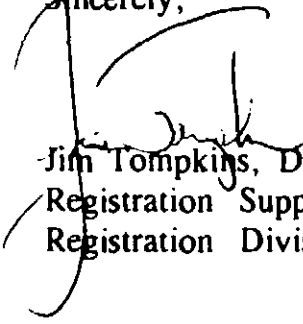
Submit the final printed labeling via the U.S. Postal Service to:

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

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
**MAR 18 1994**

### FERMONE Bt Wettable Powder Lepidopteran Stomach Poison

EPA Reg. No. 53871  
EPA Est. No. 53871-AZ-1

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
53871-4

**CAUTION-KEEP OUT OF REACH OF CHILDREN**

**Active Ingredients:**

<i>Bacillus thuringiensis Berliner var. kurstaki</i> , Primary Powder Fermentation product, potency of 16,000 International units per mg of product (equivalent to 7.3 billion IU/lb) .....	29%
Inert Ingredients .....	71%
Total .....	100%

**PRECAUTIONARY STATEMENTS**

**CAUTION: Hazard to Humans**

**ENVIRONMENTAL HAZARDS**

**PERSONAL PROTECTIVE EQUIPMENT**

Do not contaminate water by cleaning equipment or disposal of waste.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

**DIRECTIONS FOR USE**

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**USER SAFETY  
RECOMMENDATIONS**

- 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.

FERMONE Bt contains the spores and toxic crystals of *Bacillus thuringiensis kurstaki*. FERMONE Bt is a stomach poison and has high specific activity against lepidopterous caterpillars. Individuals eating FERMONE Bt stop feeding within hour and die 2-5 days later. Apply as soon as caterpillars are seen.

The use of a spreader-sticker is recommended on cole crops. Good coverage is essential and spraying to run-off is recommended. The tank contents should be agitated to prevent settling.

Half fill the spray tank with water, add the correct quantity of FERMONE Bt and continue filling to obtain the recommended mix ratio. Use higher rates against heavy worm infestations or on advanced larval stages.

**Spray Volumes:**

**Aerial Application:** Use recommended amount of FERMONE Bt (per acre rate) in 3 to 20 gallons of

water. Apply in the early morning or in the evening when the air is calm.

**Ground Application:** Use the recommended amount of Fermone Bt (per acre rate) in 5 to 80 gallons of water, depending on the type of crop.

**Ground Application to Trees and Vines:** Use the recommended amount of fermone Bt (per acre rate) in 100 gallons of water in high pressure, high gallonage sprayers. Wet the foliage thoroughly with the spray, but not to the point of excessive run-off. For mist blowers, use the recommended amount (per acre rate) in 10 to 50 gallons of water.

**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 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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.

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
- Shoes plus socks

**STORAGE AND DISPOSAL**

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

**Storage:** Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 32° C (90° F).

**Pesticide Disposal:** Pesticide waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with federal and local regulations.

**Container Disposal:** Completely empty the bag into the application equipment. Then dispose of the empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

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**WARRANTY**

***Limitation of damages:*** Fermone Corporation, Inc. warrants that this material conforms to the chemical description and guaranteed limits of active ingredients as stated on this label. Fermone Corporation, Inc. makes no other express or implied warranty of fitness or merchantability of any kind. Fermone Corporation, Inc.'s maximum liability for breach of this warranty shall not exceed the purchase price of this product. In no event shall Fermone Corporation, Inc. be liable for indirect or consequential damages. This warranty shall not be changed by oral or written agreement unless signed by a duly authorized officer of Fermone Corporation, Inc. Buyer assumes all risk of use or handling whether in accordance with directions or not.

Application Rates:		Rates (pts/acre*)
Crop	Pests	
Cotton	Loopers, bollworm, budworm, armyworm	2 - 4
Nut Tree	Redhumped caterpillars, fall webworm, tent caterpillars, omnivorous leaf-roller, flibert leafroller.	1 - 2
Tree Fruits	Redhumped caterpillars, tent caterpillars, omnivorous leafroller, tortrix moth, cankerworms, leafrollers, fruit tree leafroller, gypsy moth.	1 - 2
Citrus	Orange dog, fruit tree leafroller, citrus cutworm	1 - 2
Soybeans	Loopers, budworm, hornworm, velvet-bean caterpillar, cloverworm.	1 - 4
Alfalfa, Pasture hay	Alfalfa caterpillar	0.25 - 0.5
Small grains, forage crops	Armyworm, Looper	2 - 4
Sugar beets	Cabbage Looper, omnivorous leafroller, armyworm.	2 - 4
Vegetables of the following groups:	Imported cabbage worm, cloverworm, hornworm, alfalfa caterpillar	0.5 - 1
Root & Tuber Leaves of root and tuber	Webworms, loopers, cutworm, Saltmarsh caterpillar, Melonworm, pickleworm	1 - 2
Bulb Leafy Brassica (cole) Leafy legumes Foliage of legumes Fruiting Cucurbit	Armyworm, budworm, tomato fruit-worm, corn earworm, diamondback moth	2 - 4
Vines	Leaffolders, leafrollers, berry moths, tortrix moths, grapeleaf skeletonizer	1 - 2
Tobacco	Budworm, hornworm, looper	1 - 4
Turf	Sod webworm	2 - 4

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Application Rates:		Rates
Crop	Pests	(pts/acre*)
Forests Shade trees Ornamentals Shrubs, Sugar Maple trees	Gypsy moth, spruce budworm browntail moth	2 - 5
	Tussock moths, pine butterfly, bagworm, leafrollers, tortrix, mimosa websorm, tent caterpillar, jackpine budworm, black-headed budworm, elm spanworm, saddled prominent and saddleback caterpillars	1.5 - 4
	Redhumped caterpillar, Spring and Fall cankerworm, California oakworm, Fall webworm.	1 - 2
Greenhouse (e.g. tomato, cucumber, flowers, lettuce, etc.		pts.
	Loopers, bollworm, diamondback moth, fruitworm, hornworm, armyworm	1 - 4
Stored products	Tobacco moth	Per ton 1 pt. in 6 gal.
	Almond moth, Indian meal moth, flour moth	4 pts. in 3 gal.

\* Use the higher recommended rates on advanced larval stages or under high density larval populations.