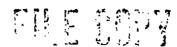
#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

20 APR 1993

Mrs. Linda A. Dansbury, Manager Product Development and Registrations FMC Corporation Agricultural Chemical Group 1735 Market Street Philadelphia, Pennsylvania 19103



Dear Mrs. Dansbury:

Subject: Request to Remove Closed System Restriction Revised Labeling CAPTURE 2 EC Insecticide/Miticide EPA Registration Number 279-3069 CAPTURE 2 EC-Cal Insecticide/Miticide EPA Registration Number 279-3114 TALSTAR Flowable Insecticide/Miticide EPA Registration Number 279-3105 TALSTAR WSB In 0.25 LB Bag Insecticide/Miticide EPA Registration Number 279-3087 TALSTAR WSB In C.05 LB Bag Insecticide/Miticide EPA Registration Number 279-3086 Your Submission Dated December 3, 1992

The revised labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, is acceptable, provided that you make the labeling change (s) listed below before you release the product for shipment bearing labeling:

\* In the environmental hazards section, revise the statement pertaining to wetlands to read:

"Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

Based on the Agency's calculation of the margin of safety for Mixer/Loader, we have no objections to removal of the label requirement for closed system loading and mixing associated with the use of the subject products. For detailed considerations, see attached Toxicology Branch Memorandum dated April 1, 1993. Please note that the appropriate personal protective equipment (PPE) may vary from that which was last proposed as a result of the new Worker Protection Standards.

CONCURRENCES				
SYMBOL				
SURNAME 4				
DATE 1/1/93				
EPA Form 1320-1A (1/90)	Printed on Recycled	l Paper	OFFICIAL FILE COPY	

1U.S. Government Printing Office: 1992 — 620-858/40872

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

## **Net Contents**

ACCEPTED with COMMENTS in EPA Letter Dated

20 APR 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 306

# Capture<sub>®</sub> 2 EC Insecticide/Miticide

EPA Reg. No. 279-3069

**EPA Est. 279-**

**Active Ingredient:** 

By Wt.

Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-

2,2-dimethyl-cyclopropanecarboxylate\* ......

25.1% 74.9%

Inert Ingredients:\*\*

100.00%

\*Cis isomers 97% minimum, trans isomers 3% maximum.

"Contains xylene range aromatic solvents.

This product contains 2 pounds active ingredient per gallon.

U.S. Patent No. 4,238,505

### KEEP OUT OF REACH OF CHILDREN WARNING

# This label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the possession of the use that the label must be in the label must

STATEMENT OF PROTICAL TREATMENT

If Swallowed: Germetical attention, Call a Poison Control Center or physician promptly for adviced Describe Precautionary Statements and Note to Physician of Qualified The dical advisor. Do not give anything by mouth to an unconscious page.

If Inhaled: Remove victim to fresh air, If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on Skin: Wash with plenty of soap and water. Get medical attention.

If In Eyes: Flush with plenty of water. Call a physician if irritation persists.

Note to Physician:

Pesticide Hotline (800) 858-7378. This product is a pyrethroid, If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

For Emergency Assistance Call (800) 331-3148.

See other panels for additional precautionary information.

#### PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals)

Warning
May be fatal if s. allowed. Harming it in pled, or absorbed through skin.
Causes moderate eye irritation. Availating vapor or spray mist.
Avoid contact with skingly elips in thing. With thoroughly with soap and water after handling. I may be contaminated clothing the present.

Applicators must weak or place we shirt and trousers. Mixers and loaders must weak long there is, shirt, trousers, chemical resistant gloves and gogglet, or face priced.

Environmental Hazards

Environmental mazar us

It is pesticide is extremely toxic to fish and aquatic invertebrates. Do not
the water or wetlands (swamps, bogs, marshes and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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 if bees are visiting the treatment area.

#### Physical/Chemical Hazards

Do not use or store near heat or open flame.

#### DIRECTIONS FOR USE

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

#### Reentry Statements

Do not apply this product in such a manner au 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 virihout protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for crops treated with this product, consult your State Department of Agriculture for further information.



FMC Corporation Agricultural Chemical Group Philadelphia PA 19103

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#### STORAGE AND DISPOSAL

Pesticide Storage

Do not freeze. Do not store below 40° F. If crystals are observed, warm material to above 60° F by placing container in warm location. Shake or roll container periodically to redissolve solids.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide 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 of the nearest EPA Regional Office for guidance.

**Container Disposal** 

Metal or Plastic Container: Triple rinse (or equivalent) 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. Do not cut or weld metal containers.

Ú-Turn<sup>®</sup> Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

#### **Chemigation Use Directions**

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 system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. 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, pw pressure drain appropriately located on the irrigation pipeline to ent water source contamination from backflow.

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.

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

Capture\* 2 EC insecticide/miticide should be applied continuously for the duration of the water application. Capture 2 EC should be diluted in sufficient volume to insure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation is not required when a suitable diluent is used.

#### Special Equipment

Capture 2 EC should be mixed and loaded using systems that comply with accepted standards that identify a closed mixing loading system. That system should be designed and operated in such a manner to minimize human exposure to the formulated product or the mixed epray solution of Capture. Follow State directions for closed systems. For more details, contact your State Extension Service.

#### **Application Instructions**

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

CROP	PEST	LB AVA	FL OZ/A	REMARKS
CROP	PEST  European Corn Borer Soybean (Banded) Thrips Tobacco Thrips Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Lygus Spp. Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs	DOS/ LB AVA 0.02-0.1	1.3-6.4 2.6-6.4	REMARKS  Capture 2 EC may be applie in water or refined vegetabloil (soybean/cottonseed).  Application in Water: Apply in a minimum of 5 galons per acre with grour equipment or 1 gallon per acre by aircraft. When applying to air, 1 quart of emulsified or or quart of water in the finishe spray.  ULV Application: Apply the recommended ra of Capture 2 EC in refine vegetablo oil in a minimum 1 quart of finished spray pace with aircraft calibrated give adequate coverage.  To Control Boll Weevil: Apply Capture 2 EC at a interval of 3 to 4 days until pen numbers are reduced acceptable levels.
	Tobacco Budworm Whitefly Yellow Striped Armyworm			To Control Mites and Aphids anyly when pests first appear to mai tain control. Higher rates whe required once a damage threshold is established.
	Beet Armyworm Carmine Spider Mite Pink Bollworm Twospotted Spider Mite	0.06-0.1	3.8-6.4	

Do not apply more than 0.5 pound active per acre per season.

Do not apply within 14 days of harvest.

Do not graze livestuck in treated areas or cut treated crops for feed.

Spray Drift Precautions—Cotton

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

Do not make aerial or ground applications during temperature inversions.

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph.

For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. Boom length must not exceed 75% of wing span or rotor diameter.

Do not apply by ground equipment within 25 feet, or by air within 75 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include Ambush®, Ammo®, Asana® XL, Baythroid®, Capture®, Cymbush®, Karate®, Pcunce® and Scout® X-TRA.

#### **Rotational Crops**

Rotational crops may be planted no sooner than 30 days after last application. Straw may not be used for food or feed.



#### Tank-Mixture

Capture 2 EC insecticide/miticide may be applied in tank-mixtures with other products approved for use on cotton. Observe all restrictions and precautions which appear on the labels of these products.

#### Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/ or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Demages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential



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