



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

NOV 12 1992

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OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Dr. Edward Cherry
Fm. Corporation
Agricultural Chemical Group
17.5 Market Street
Philadelphia, PA 19103

Dear Dr. Cherry:

Subject: Application For Renewal/Amendment of Conditional
Registration(s)/Cotton Use Pyrethroids
Ammo 2.5 EC Insecticide
EPA Registration No. 279-3027
Ammo 2.5 Miscible Insecticide
EPA Registration No. 279-3046
Ammo 2.5 Oil Insecticide
EPA Registration No. 279-3044
Ammo WSB Insecticide
EPA Registration No. 279-3084
Fury 1.5 EC Insecticide
EPA Registration No. 279-3125
Fury 1.5 EW Insecticide
EPA Registration No. 279-3126
Pounce 3.2 EC Insecticide
EPA Registration No. 279-3013
Pounce 25 WP Insecticide
EPA Registration No. 279-3051
Pounce WSB Insecticide
EPA Registration No. 279-3083
Capture 2 EC Insecticide/Miticide
EPA Registration No. 279-3069
Capture 2 EC-CAL Insecticide/Miticide
EPA Registration No. 279-3114
Your Applications Dated October 6 and October 12, 1992

The Agency accepts your application for renewed/amended registration for purposes of extending the registration of the subject product(s). This renewal is being granted to allow EPA additional time to (1) complete its review of all relevant data associated with the registration of the subject product(s) on cotton (2) to assess environmental risk and (3) to make FIFRA Section 3(c)(5) or other appropriate regulatory decisions for cotton use pyrethroids.

Therefore in accordance with FIFRA Sections 3(c)(7)(B)(C) the conditional registration of the subject product(s) is/are extended for a period not to exceed November 15, 1993. We agree that this extension is subject to the following conditions:

- a. All products will continue to bear the labeling revisions for cotton use required per Agency letter dated November 15, 1990 (paragraphs 1 (a) thru (f)).
- b. Absent further Agency action these cotton registrations will automatically expire at midnight on November 15, 1993. Sale and distribution of the subject product(s) bearing labeling for use on cotton after November 15, 1993 will be illegal. The tolerance authorizing residues of the subject product on cotton will also expire automatically on November 15, 1994. It is understood that the expiration dates for products containing permethrin, cypermethrin, and bifenthrin referred to above applies to their use on cotton only and not other existing registered uses and/or tolerances.
- c. FMC Corporation will submit product information (pounds or gallons produced) for these products for the fiscal year in which the use on cotton is conditionally registered in accordance with FIFRA Section 29. This fiscal year begins October 1 and ends September 30.

This information is to be submitted to :

Registration Support Branch
Registration Division (H7505C)
Environmental Protection Agency
Crystal Mall Building #2
1921 Jefferson Davis Highway
Arlington, VA 22202

- d. Except as modified above all other terms and conditions of the existing registration(s) for the subject product(s) remains in effect.

A stamped copy of the labeling is enclosed.

Sincerely,



George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Code 537

RESTRICTED USE PESTICIDE

Net Contents

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 those uses covered by the Certified Applicator's certification.

Ammo® 2.5 EC Insecticide

EPA Reg. No. 279-3027

EPA Est. 279-

Active Ingredient

* Cypermethrin **	30.6%
Inert Ingredients***	69.4%
	100.0%

*(±) α-Cyano (3-phenoxyphenyl)methyl (±) *cis/trans* 3-(2,2-dichloroethenyl)-2,2 dimethylcyclopropane carboxylate
** *Cis/trans* ratio: Max. 55% (±) *cis* and min. 45% (±) *trans*
***Contains xylene range aromatic solvents.

Contains 2.5 pounds cypermethrin per gallon.
U.S. Patent No. 4,024,163

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

If swallowed: Do not cause vomiting. Call a physician.

If on skin: Wash thoroughly with soap and water.

If in eyes: Flush thoroughly with water. If signs of irritation persist, contact physician.

If inhaled: Exposure to vapor or dust may cause tingling or numbness of exposed areas, especially the face, but this is temporary and requires no treatment. Lung irritation from breathing vapors is possible, and medical attention should be obtained if it is severe.

Note to Physician:

Like the natural pyrethrins, the synthetic derivative is expected to have relatively minor toxicity in humans; in fact, any significant acute toxic effects are more likely from a carrier hydrocarbon solvent. Consequently, induction of vomiting may increase the likelihood of the most important toxic potential, chemical pneumonia, and so should either be avoided or done only under medical supervision. Ingestion of a large amount calls for gastric lavage, with care (Trendelenburg position, suction available, cuffed endotracheal tube if patient is unconscious) to avoid intrapulmonary aspiration. A saline cathartic (sodium or magnesium sulfate), 15-30 gm. dissolved in water should be given, as should 15-20 gm. activated charcoal as a slurry in water. Digestible fats, oils or alcohol may increase absorption and so should be avoided. Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment.

For Emergency Assistance Call (800) 331-3148

See other panels for additional precautionary information.

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Caution

Harmful if absorbed through skin, inhaled or swallowed. Causes eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, may cause sensitization reaction in some individuals. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Product should be opened and poured in a well ventilated area. Applicators must wear protective clothing. Mixers and loaders must wear a full face shield, impermeable gloves, a rubber apron, boots and protective clothing. When mixing/loading and spraying, wear midforearm to elbow length chemical-resistant gloves, boots, or overshoes, one piece overalls which have long sleeves and long pants, and face shield or goggles. Mixer/loaders should in addition wear a chemical-resistant apron.

Any article of clothing worn while applying this product must be cleaned before reusing. Clothing which has been drenched or heavily contaminated should be disposed of in accordance with State or local regulations.

Instead of clothing and equipment specified above, the applicator can use an enclosed tractor cab with filtered air supply.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. 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.



FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

392

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 12 1992

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

279-3027

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STORAGE AND DISPOSAL

Pesticide Storage

Do not store below 10°F. (12°C).

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 Containers: 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.

Plastic Containers: 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, stay out of smoke.

Returnable/Refillable Sealed Containers

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, 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.

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

Ammo[®] 2.5 EC insecticide should be applied continuously for the duration of the water application. Ammo 2.5 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.

GENERAL INSTRUCTIONS

Reentry Statements

Do not treat areas while unprotected humans or domestic animals are present in the treatment area.

Do not allow entry into treated areas without protective clothing until sprays have dried.

State re-entry regulations will apply if they are more restrictive than those stated on this label. Consult with State regulatory officials.

Rotational Crops

Rotational crops may be planted within 30 days after last application.

Use low rate under light to moderate infestation. Higher rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting.

CROP	PEST	DOSAGE		REMARKS
		LB A/A	FL OZ/A	
Cotton	Cutworms Tobacco Thrips Soybean (banded) Thrips	0.025 to 0.1	1.3 to 5	Ammo [®] 2.5 EC may be applied in water or refined vegetable oil. When water is used, apply a minimum of one gallon of finished spray per acre by air or five gallons of finished spray with ground equipment. When applying in water by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray. When using oil, use a minimum of one quart per acre in the finished spray.
	Boil Weevil Cabbage Looper Cotton Bollworm Cotton Flea hopper Cotton Leaf Perforator European Corn Borer Fall Armyworm Lygus Bugs Other Plant Bugs Pink Bollworm Saltmarsh Caterpillar Tarnished Plant Bug Tobacco Budworm White Flies [*] Yellow Striped Armyworm	0.04 to 0.1	2 to 5	Ammo 2.5 EC may be injected into overhead sprinkler irrigation water provided 1) an anti-backflow check valve is present between the injection port and the water source. 2) a check valve is present in the line to prevent irrigation water from entering the chemical supply tank and 3) the irrigation injection system has interlocking on-off switches. For boll weevil control, apply Ammo 2.5 EC at a 3 to 4 day interval until pest numbers are reduced to acceptable levels. A maximum of 0.6 lb active ingredient may be applied per acre per season. Ammo 2.5 EC may be applied within 14 days of harvest. Do not graze or feed cotton for forage.
	Beet Armyworm ^{**}	0.06 to 0.1	3 to 5	

^{*}Aids in control

^{**}For control of beet armyworms only in the high plains of Texas, Arizona, and California.

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 in 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, ditches 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[®], Pounce[®] and Scout[®] X TRA.

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CROP	PEST	DOSAGE*		REMARKS
		LB A/A	FL OZ/A	
Lettuce (Head)	Corn earworm Cucumber Beetles Cutworms Diamondback Moth Flea beetles Imported Cabbageworm Leafhoppers Lygus Bugs Saltmarsh Caterpillar Tobacco Budworm	0.05 to 0.1	2.5 to 5	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Ammo 2.5 EC should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations. A maximum of 0.6 lbs active ingredient may be applied per acre per season. Do not apply within 5 days of harvest.
	Amygdalids Crickets Loopers Onion Thrips Stinkbugs	0.075 to 0.1	3.75 to 5	*In areas where and climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
Pecans	Black Pecan Aphid Hickory Shuckworm Pecan Nut Casebearer Pecan Weevil Yellow Pecan Aphid	0.06 to 0.10	3 to 5	Applications at the lower rate should be made when pest populations are low. Rates should be increased as the pest pressure increases. Apply by ground equipment to the point of drip. Use 100 gallons of dilute spray per acre for smaller trees. For larger trees which require higher gallonage to achieve adequate coverage, apply in 200 to 300 gallons of water. In order to calculate the correct number of gallons of water needed to spray one acre of your trees to the point of drip, you may need to conduct a test. If you do not know how to conduct such a test with your equipment, you should request assistance from your equipment dealer. Up to 0.6 lb active ingredient per acre per crop season may be applied prior to shuck split. Do not apply within 21 days of harvest. Do not graze livestock in treated orchards or cut treated cover crops for feed.

Tank-Mixture

Ammo 2.5 EC insecticide 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.

For improved control of aphids and mites, Ammo 2.5 EC may be tank-mixed with Curacron* 6E. The tank-mixture is most effective when pest populations are first observed. Subsequent applications may be needed to maintain control.

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 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.

Damages: 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 damages.

Ambush, Cymbush and Karate—Trademarks of ICI Americas Inc.
Asana—Trademark of E. I. duPont de Nemours and Co., Inc.
Baythroid—Trademark of Bayer AG
Curacron—Trademark of Ciba-Geigy Corporation
Scout—Trademark of Hoechst Roussel Agri-Vet Company
Ammo, Capture, Pounce and **FMC**—Trademarks of FMC Corporation
(537-717-91-A)

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