

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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18/78

NOV 15 1993

Edward T. Cherry, Ph.D
FMC Corporation
Agricultural Chemical Group
1735 Market Street
Philadelphia, PA 19103

Dear Dr. Cherry:

Subject: Application for Amendment/Extension of Conditional
Registration
 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® EC-CAL Insecticide/Miticide
 EPA Registration No. 279-3114
 Your Letter Dated November 15, 1993

The Agency accepts your application for amended registration incorporating the terms and conditions stipulated in the subject letter for purposes of extending the registration of the subject product.

Therefore in accordance with FIFRA Section 3(c)(7)(B)(C) the conditional registration of the subject product is extended for a period not to exceed November 15 1996.

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

A stamped copy of the final labeling submitted November 15, 1993 is enclosed. We agree that this labeling including supplemental labeling will be revised to incorporate the revisions specified in paragraph 2 of the subject letter before distribution or use. Please submit five copies of revised finished labeling when printing is completed.

Sincerely yours,

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

)

Enclosure

)

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.

Ammono 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-dichloroethyl)-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 eyes 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.

Resistance. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

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FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

3/92

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 15 1993

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

279-3027

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. Contain 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, 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 motor 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 AWA	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.
	Boll 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 irrigator injection system has inter-locking 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.
	Beet Armyworm**	0.06 to 0.1	3 to 5	Ammo 2.5 EC may be applied within 14 days of harvest. Do not graze or feed cotton for forage.

*Aids in control.

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

Spray Drift Precautions—Cotton

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[®], Danitol[®], Fury[®], Karate[®], Mustang, Pounce[®] and Scout[®] X-TRA.

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

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

Do not apply by ground equipment within 25 feet, or by air within 150 feet of lakes; reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made.

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

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

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. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Do not cultivate within 10' of the aquatic area so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

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CROP	PEST	DOSAGE*		REMARKS
		LB AI/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.
	Armyworms Crickets Loopers Onion Thrips Stinkbugs	0.075 to 0.1	3.75 to 5	*In areas where arid 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
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