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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Mr. Alejandro Torres, Manager  
Product Development and Registrations  
FMC CORPORATION  
Agricultural Chemical Group  
1735 Market Street  
Philadelphia Pennsylvania 19103

JUL 17 1991

Dear Mr. Torres:

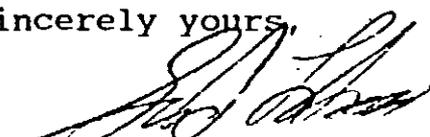
Subject: Label Amendments-Limit Controlling Beet Armyworm in Cotton to Certain States & Establish Minimum Use Rate.  
AMMO 2.5 EC Insecticide  
EPA Registration Number 279-3027  
AMMO 2.5 Miscible Insecticide  
EPA Registration Number 279-3046  
AMMO 2.5 Oil Insecticide  
EPA Registration Number 279-3044  
AMMO WSB Insecticide  
EPA Registration Number 279-3084  
Your Amended Applications June 17, 1991

The amended labeling referred to above (limit claim for control of beet armyworm in cotton to the states of Arizona, California and the high plains of Texas, and establish the minimum use rate as 0.06 lb of ai/A), submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended, is acceptable.

Submit five (5) copies of your final printed labeling for each of the subject product before you release the products for shipment.

Stamped copies of the labeling are enclosed for your records.

Sincerely yours,

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

CONCURRENCES							
SYMBOL	H7505C						
SURNAME	Affonso						
DATE	7.17.91						

Code 386

**RESTRICTED USE PESTICIDE**

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.

Net Contents

ACCEPTED  
with GOLF PRODUCTS  
to EPA Label 12/82

JUL 17 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended under EPA Reg. No. 279-3044

# Ammo® 2.5 Oil Insecticide

EPA Reg. No. 279-3044

EPA Est. No. 279-

**Active Ingredient**

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

(=)  $\alpha$ -Cyano (3-phenoxyphenyl)methyl (=) *cis/trans* 3-(2,2-dichloro-1-hydroxyethyl)-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.



FMC Corporation  
Agricultural Chemical Group  
Philadelphia PA 19103

**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.

Applicators must wear protective clothing. Mixers and loaders must wear full face shield, impermeable gloves, a rubber apron, boots and protective clothing.

**Environmental Hazards:**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or wetlands (swamps, bogs, marshes, and potholes). 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.

**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.

## 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 approximately 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 rises 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<sup>®</sup> 2.5 Oil insecticide should be applied continuously for the duration of the water application. Ammo 2.5 Oil 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.

Re-entry regulations will apply if they are more restrictive than those listed 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.

### Tank-Mixtures

Ammo 2.5 Oil 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 Oil may be tank-mixed with Curacron<sup>®</sup> 6E. The tank-mixture is most effective when pest populations are first observed. Subsequent applications may be needed to maintain control.

CROP	PEST	DOSAGE		REMARKS
		LB AI/A	FL OZ/A	
Cotton	Cutworms Tobacco Thrips Soybean (banded) Thrips	0.025 to 0.1	1.1 to 5	Ammo <sup>®</sup> 2.5 Oil 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 Fleaopper Cotton Leaf Perforator Fall Armyworm Lygus Bug Other Plant Bugs Pink Bollworm Saltmarsh Caterpillar Tarnished Plant Bug Tobacco Buworm White Flies* Yellow Striped Armyworm	0.04 to 0.1	2 to 5	Ammo 2.5 Oil may be injected into overhead sprinkler irrigation water (provided 1) an antbackflow 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 Oil at a 3 to 4 day interval until pest numbers are reduced to acceptable levels.
	Beet Armyworm**	0.05 to 0.1	3 to 5	A maximum of 0.6 lb active ingredient may be applied per acre per season.  Ammo 2.5 Oil may be applied within 14 days of harvest.  Do not graze or feed cotton for storage.

\* Also 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 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<sup>®</sup>, Ammo<sup>®</sup>, Asana<sup>®</sup> XL, Baythroid<sup>®</sup>, Capture<sup>®</sup>, Cymoush<sup>®</sup>, Karate<sup>®</sup>, Pounce<sup>®</sup> and Scout<sup>®</sup> X-TRA.



### **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 or 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  
(386-11 27 90-A)