

Reg # 277-3125

101-12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

100 10 1995

325/266704
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Ms. Linda Dansbury
FMC Corporation
1735 Market Street
Philadelphia, PA 19103

Dear Ms. Dansbury:

Subject: Adding Cabbage and Dry Bulb Onions/Garlic
Fury 1.5 EC Insecticide
EPA Registration No. 279-3125
Fury 1.5 EW Insecticide
EPA Registration No. 279-3126
Your Submission Dated March 14, 1994 and FAX dated
October 7, 1994

The Agency conditionally accepts your application for amended registration to add onions and cabbage to the subject labels. Therefore in accordance with FIFRA Section 3(c)(7)(B)(C) the conditional registrations of the subject products are extended for a period not to exceed November 15, 1996 to be consistent with the terms and conditions of registration for cotton (see our letters dated June 1, 1992 and November 15, 1993).

The Agency acknowledges that existing tolerances for cypermethrin residues in cabbage, dry bulb onions and garlic are adequate to support the uses of cypermethrin-s on the same commodities. These tolerances will expire November 15, 1997.

It is understood that this registration will expire on November 15, 1996. It is further understood that it is EPA's stated intent to, by November 15, 1996, complete its review of all relevant data and other information that are available to the Agency by July 1, 1996, and to make FIFRA 3(c)(5) or other appropriate regulatory decisions for cotton-use synthetic pyrethroids and other crops conditionally registered based on the Agency's review of such data/information and the statutory and regulatory criteria for such decisions.

As stated in your FAX dated October 7, 1994, FMC will meet the conditions that have been agreed to between EPA and Pyrethroid Working Group for mitigation of environmental effects for synthetic pyrethroids registered for use on cotton. These new uses are also conditionally registered based on review in Health Effects Division which is currently pending. **CONCURRENCES**

SYMBOL							
SURNAME	Walters						
DATE	2-10-95						

FMC Corp. will submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on cabbage, garlic and onions is conditionally registered in accordance with FIFRA Section 29. The fiscal year begins October 1 and ends September 30.

This information is to be submitted to:

Registration Support Branch
Registration Division (7505W)
Environmental Protection Agency
401 M Street, S.W.
Washington, DC 20460

Sincerely,

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

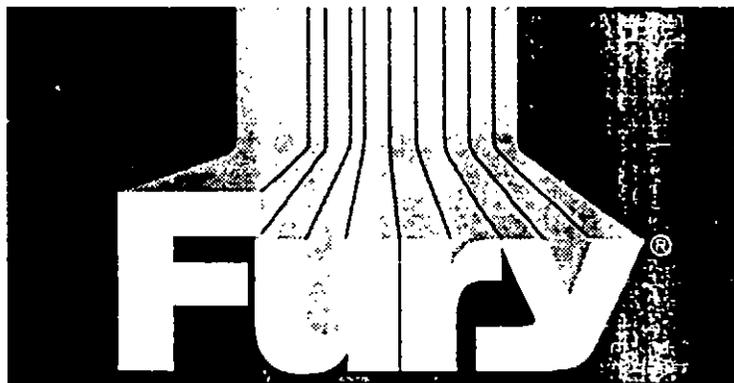
enclosure

Code 1425

RESTRICTED USE PESTICIDE

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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.



1.5 EC Insecticide

EPA Reg. No. 279-3125

EPA Est. 279-FL-1

Active Ingredient:	By Wt.
* S-Cyano (3-phenoxyphenyl)methyl (±) cis/trans 3-(2,2-dichloroethenyl)- 2,2 dimethylcyclopropane carboxylate**	18.1%
Inert Ingredients	81.9%
	100.0%

*Contains 1.5 pounds active ingredient per gallon.

**Cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans
U.S. Patent No. Pending

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Get medical attention. Call Poison Control Center or physician promptly for advice. Describe Precautionary Statements and Note to Physician on the label. Do not induce vomiting unless advised by a physician or qualified medical advisor. Drink water but do not administer milk, cream, animal or vegetable fats or alcohol as they enhance absorption. Do not give anything by mouth to an unconscious person.

If on skin: Wash thoroughly with soap and water. Get medical attention if irritation occurs and persists.

If in eyes: Flush thoroughly with water. If irritation occurs and persists, contact a physician.

If inhaled: Remove to fresh air. If breathing difficulty or discomfort occurs, obtain medical attention.

Note to Physician:

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. This product also contains lightweight aromatic hydrocarbons that can produce a severe pneumonitis if aspirated during emesis. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is symptomatic and supportive. 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)

Warning

May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing. The active ingredient may cause sensitization reaction in some individuals.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear: Long-sleeved shirt and long pants. Chemical-resistant gloves, such as Barrier Laminate or Viton, and Shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: Long-sleeved shirt and long pants, Chemical-resistant gloves, such as Barrier Laminate or Viton, Shoes plus socks, and Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washable use, use detergent and hot water. Keep and wash PPE separately from other laundry.

FMC

FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

12/93

ACCEPTED
with COMMENTS
in EPA Letter Dated

FEB 10 1995

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

279-3125

User Safety Recommendations

Users should:

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.

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 wash waters.

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.

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

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.

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 protection of agricultural workers on farms, forests, 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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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, Chemical-resistant gloves, such as Barrier Laminate or Viton, and Shoes plus socks.

STORAGE AND DISPOSAL

Pesticide Storage

Store in a cool, dry, well-ventilated place. Do not store below -6.6 C (20 F). If solids are observed warm to above 4.4 C (40 F) and roll or shake containers to redissolve. Do not use near heat, open flame or hot surfaces. Store in original containers only. 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.

Keep out of reach of children and animals.

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: Dike surrounding area or absorb with sand, cat litter or commercial clay. 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 any 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 also 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.

Fury™ 1.5 EC insecticide should be applied continuously for the duration of the water application. Fury™ 1.5 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.

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GENERAL INSTRUCTIONS

Rotational Crops

Rotational crops may not 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	0.016 to	1.37 to	Fury™ 1.5 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.
	Soybean (banded) Thrips Tobacco Thrips	0.024	2.05	
Cotton	Boll Weevil	0.033 to	2.82 to	Control of lepidopteran eggs may be achieved with proper timing of applications. Fury™ 1.5 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 Fury™ 1.5 EC at a 3 to 4 day interval until pest numbers are reduced to acceptable levels. A maximum of 0.3 lb. active ingredient may be applied per acre per season. Fury™ 1.5 EC may not be applied within 14 days of harvest. Do not graze or feed cotton for forage.
	Cabbage	0.045	3.83	
	Looper			
	Cotton			
	Boltworm			
	Cotton			
	Fleahopper			
	Cotton Leaf			
	Perforator			
	European			
	Com Borer			
	Fall Armyworm			
	Pink Bollworm			
	Saltmarsh			
	Caterpillar			
Tamished				
Plant Bug				
Tobacco				
Budworm				
Yellow Striped				
Armyworm				
Other Plant				
Bugs				
Cotton	Beet Armyworm*	0.035 to	2.99 to	Do not graze or feed cotton for forage.
	Lygus Bugs	0.050	4.25	
	Cotton Aphid**			
	White Flies**			

*For control of beet armyworm apply in the high plains of Texas, Arizona, and California

**Aids in control.

Spray Drift Precautions for Cotton, Cabbage, Bulb Onions, Garlic, and Lettuce

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 feasible altitude with pilot control and flight safety. A safety margin of 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/A/A	FLOZ/A	
Cabbage	Cutworms Corn Earworm Tobacco Budworm Lygus Bugs Salt Marsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Diamondback Moth Cucumber Beetles Aphids* V. Vitellipes*	0.023 to 0.05	2.39 to 4.26	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 Fury 1.5 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 0.3 lb. active ingredient may be applied per acre per season. Do not apply within 1 day of harvest. In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
	Armyworms Loopers Stinkbugs Crickets Ground Beetles Onion Thrips Wireworm (adults)	0.04 to 0.05	3.41 to 4.26	Follow appropriate spray drift precautions listed for cotton, cabbage, bulb onions, lettuce and garlic. aids in control
Lettuce (Head)	Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Lygus Bugs Salt Marsh Caterpillar Tobacco Budworm	0.028 to 0.05	2.39 to 4.26	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 Fury 1.5 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 0.3 lb. active ingredient may be applied per acre per season. Do not apply within 5 days of harvest. In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
	Armyworms Crickets Loopers Onion Thrips Stinkbugs	0.04 to 0.05	3.41 to 4.26	Follow appropriate spray drift precautions listed for cotton, cabbage, bulb onions, garlic, and lettuce.
Bulb Onions Garlic Shallots	Onion Thrips	0.0375 to 0.05	3.20 to 4.25	Apply Fury 1.5 EC in a minimum of 20 gallons per acre with ground equipment or in a minimum of 3 gallons per acre by aircraft. Begin applications when pests appear and repeat as necessary to maintain control. To control Onion Thrips. Use higher rates as population increases and avoid rescue situations. Do not apply more than 0.25 pound active per acre per season. Do not apply within 7 days of harvest. Do not graze livestock in treated areas or cut treated crops for feed. Follow appropriate spray drift precautions listed for cotton, cabbage, bulb onions, lettuce, and garlic.
	Aphids Armyworms Cutworms Leafminers Onion Maggot Adults Stink Bugs	0.028 to 0.05	2.39 to 4.26	

CROP	PEST	DOSAGE		REMARKS
		LB/A/A	FLOZ/A	
Pecans	Black Pecan Aphid Hickory Shuckworm Pecan Nut Casebearer Pecan Weevil Yellow Pecan Aphid	0.033 to 0.050	2.82 to 4.26	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 gallon-age 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 0.3 lb active ingredient per acre 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.

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Tank-Mixture

Fury™ 1.5 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.

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.