



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

DEC 9 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

George L. Meindl
FMC CORP.
ACG SPECIALTY PRODUCTS
1735 Market Street
Philadelphia, PA. 19103

Subject: Label Amendment Submission of 07/29/93 In Response to PR Notice 93-7
EPA Reg. No. 279-3051
POUNCE 25 WP INSECTICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyc
Printed with Soy-Car
contains at least 50%

Each notification must include the following information:

- 1. Registrant 's name and address.**
- 2. EPA Registration number of the product for which the labeling was submitted.**
- 3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.**

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

- 1. Quantity of the product that has been sold or distributed.**
- 2. EPA Producing Establishment number.**
- 3. Location of the product, if known.**
- 4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.**

Submit the notification to:

**Michael Wood, Director
 Compliance Division, (7203)
 Worker Protection Notification
 Office of Compliance Monitoring
 U.S. Environmental Protection Agency
 401 M Street SW
 Washington, DC 20460**

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

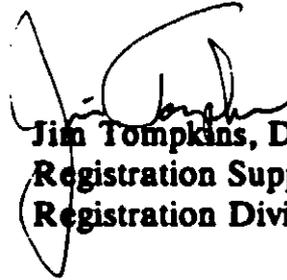
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final labeling may be made to:

**Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202**

Sincerely,



**Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)**

Attachment

cc: Office of Compliance Monitoring



5.F 6

Code 1484

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 Weight



ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 9 1993

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

279-3051

25WP INSECTICIDE

EPA Reg. No. 279-3051	EPA Est. 279-
Active Ingredients:	By Wt.
"Permethrin".....	25.0%
Inert Ingredients.....	75.0%
	100.0%

*(3-Phenoxyphenyl)methyl (±) *cis-trans* 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

***cis/trans* ratio: Max. 55% (±) *cis* and min. 45% (±) *trans*

U.S. Patent No. 4,024,163

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 this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

If swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For Emergency Assistance Call: (800) 331-3148.

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Precautionary Statements:

Do not get in eyes, on skin or on clothing.

Personal Protective Equipment:

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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 washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean 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.

See other panels for additional precautionary statements.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your state or Tribe, consult the agency responsible for pesticide regulation. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

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). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 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
- Waterproof gloves
- Shoes plus socks

STORAGE AND DISPOSAL

Pesticide Storage

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, fold and roll back bags, clamp 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

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Paper Bag: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.



FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

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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 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.

Astro™ 25 WP mixes readily with water to form a suspension. Astro 25 WP should be diluted in sufficient volume of water to ensure accurate application over the area to be treated. Mix the required amount of Astro 25 WP with a small quantity of water and add this premix to the supply tank with the required amount of water. Maintain sufficient agitation during both mixing and application to ensure uniformity of the supply tank. Hydraulic or mechanical agitation is recommended. Astro 25 WP should be applied continuously for the duration of the water application. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended.

GENERAL INSTRUCTIONS

Astro 25 WP insecticide is a 25% wettable powder formulation of the insecticide permethrin. Apply Astro 25 WP when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Astro 25 WP may be applied by both ground and aerial equipment. Use sufficient water to obtain full coverage. With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

Mix as needed; do not store diluted material.

Chrysanthemums: For control of *Liomyza* Leafminer flies—Use Astro 25 WP at a rate of 32 ounces (0.5 pound active) per 100 gallons. Avoid spraying the blooms. Astro 25 WP may be applied on a weekly schedule. **Caution:** Cultivars may vary in sensitivity and a small number of plants should be treated to determine plant safety prior to commercial use.

Conifers (Container and Field Grown): For control of Nantucket Pine Tip Moth—Use Astro 25 WP at a rate of 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre. Begin application when the adults appear and repeat at 5 to 7 day intervals or as needed throughout the season.

Ornamental Nursery Stock (Field Grown): To control Bagworms, Beet Armyworm, Cabbage Looper, Citrus Thrips, *Heliothis* spp., Lacebug, Leafhoppers, Leafminers and Whiteflies—Use 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per 100 gallons of water. Astro 25 WP may be used to control specified pests on non-edible ornamentals and non-bearing plants of fruiting species.

Caution: Astro 25 WP has demonstrated excellent plant safety, however, not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full-scale application.

Pine Seed Orchards: To control Coneworms, Seed Bugs—Use Astro 25 WP at the following rates:

For high volume sprayers: Use 13 ounces (0.2 pound active) in 100

gallons of water (0.025% dilution by weight). Apply 5 to 10 gallons of finished spray per tree.

For low volume sprayers: Use 68 ounces (1.6 pounds active) in 100 gallons of water (0.125% dilution by weight). Apply 100 gallons per acre.

For aerial application: Use 48 ounces (1.2 pounds active) in not less than 10 gallons of water per acre.

To control Webbing Coneworm—make first application within 1 week of female flower closure or peak pollen flight.

To control other coneworms and seed bugs—make first application within 30 days following female flower closure.

Repeat application at 4 week intervals, but do not apply more than 6 applications. Do not graze or harvest cover crop. Avoid contact with open water.

Range Grass: To control Range Caterpillar—Use Astro 25 WP at a rate of 0.64 ounces (0.01 pound active) per acre. Do not apply more than once per year. Cattle may be present during application. Do not harvest or feed hay to livestock.

Roses (Field Grown): For control of *Heliothis* spp., use Astro 25 WP at a rate of 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre. Apply in 5 gallons of finished spray per acre with ground equipment and 1 gallon per acre by air.

Roses (Greenhouse): For control of Beet Armyworm, Cabbage Looper and Omnivorous Leafroller—Use Astro 25 WP at a rate of 12.8 ounces (0.2 pound active) per 100 gallons of water.

Caution: Varieties may vary in their sensitivity to Astro 25 WP, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

Premises Spray

For agricultural use only.

Spray directly to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

Shake well before measuring.

For Application in	Target Insects	Method of Applic.	Dilute	Applic. Rate
Dairies, Barns, Feedlots, Stables, Poultry Houses, Swine and Livestock Houses	House Flies, Stable Flies and other Manure Breeding Flies. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders.	Sprayer	6 ounces* to 11 gallons water or 8 level table-spoons to 3 gallons water	1 gallon per 750 square feet of surface

*1 ounce of this powder equals 5 level tablespoons. Shake canister before measuring. Make up only as required.

Re-treat as necessary, but not more often than once every 2 weeks. The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding site.

RATE CONVERSION CHART

Pounds Active per Acre	Formulation Ounces per Acre	Formulation Pounds per Acre
0.05	3.2	0.2
0.10	6.4	0.4
0.125	8.0	0.5
0.15	9.6	0.6
0.175	11.2	0.7
0.20	12.8	0.8

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, he guarantees, 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 practices.

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.

Astro and FMC—Trademarks of FMC Corporation (1484-4/1/83-A)



Reg # 279-3051

PM-13

LARKING

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

DEC 9 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

George L. Meindl
FMC CORP.
ACG SPECIALTY PRODUCTS
1700 ...
... 19103

Subject: Label Amendment Submission of 07/29/93 In Response to PR Notice 93-7
EPA Reg. No. 279-3051
POUNCE 25 WP INSECTICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.

BEST AVAILABLE COPY



Recycled/Recycled
Printed with Soy Car
contains at least 50%

1993-12-09

297

Each notification must include the following information:

1. Registrant 's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification may also be a violation of FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

AND

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

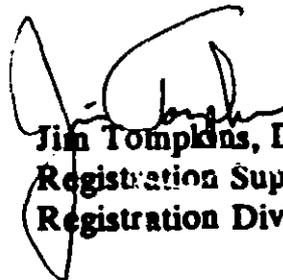
BEST AVAILABLE COPY

49-7.

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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FMC CORP.
POUNCE 25 WP INSECTICIDE 07/29/93
279-3051

ORIGINAL SUBMISSION

The requirement under the heading "Personal Protective Equipment" must state: "Applicators and other handlers must wear:". Cross out your lead-in statement and replace it with correct one. EXCEPTION: If you have an entirely separate PPE section specifying what "Mixers and loaders must wear", the requirement under the heading "Personal Protective Equipment" must state: "Applicators and other handlers (other than mixers and loaders) must wear:". Cross out your lead-in statement and replace it with the correct one.

Remove the statement "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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval."

There is a typographical error(s) in the Spanish language text.

BEST AVAILABLE COPY

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Code 1484

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 Weight



ACCEPTED
 via COMMENTS
 in EPA Letter Dated

DEC 9 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, 7 U.S.C. 136-136c, and the Federal Environmental Pesticide Control Act, 7 U.S.C. 136-136j

25 WP PESTICIDE

Environmental Hazard 279-3051

EPA Reg. No. 273-3051

EPA Est. 273-

Active Ingredients:

By Wt.

"Permethrin"..... 25.0%

Inert Ingredients..... 75.0%

100.0%

*(3-Phenoxyphenyl)methyl (±) cis-trans 3-(2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate

**cis:trans ratio: Max. 55% (±) cis and min. 45% (±) trans

U.S. Patent No. 4,024,163

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 this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

If swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For Emergency Assistance Call: (800) 331-3148.

PRECAUTIONARY STATEMENTS

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- Waterproof gloves
- Shoes plus socks

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 washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

See other panels for additional precautionary statements.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your state or Tribe, consult the agency responsible for pesticide regulation. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

AGRICULTURAL USE REQUIREMENTS

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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
- Waterproof gloves
- Shoes plus socks

STORAGE AND DISPOSAL

Pesticide Storage

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, fold and roll back bags, clamp 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 contain 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

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Paper Bag: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.



FMC Corporation
 Agricultural Chemical Group
 Philadelphia PA 19103

7/93

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Chemigation Use Directions

Apply this product only through sprayers including center pivot, lateral move, and low, side (wheel) rail, 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 system to prevent backflow 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.

Astro™ 25 WP mixes readily with water to form a suspension. Astro 25 WP should be diluted in sufficient volume of water to ensure accurate application over the area to be treated. Mix the required amount of Astro 25 WP with a small quantity of water and add this premix to the supply tank with the required amount of water. Maintain sufficient agitation during both mixing and application to ensure uniformity of the supply tank. Hydraulic or mechanical agitation is recommended. Astro 25 WP should be applied continuously for the duration of the water application. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended.

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GENERAL INSTRUCTIONS

Astro 25 WP insecticide is a 25% wettable powder formulation of the insecticide permethrin. Apply Astro 25 WP when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Astro 25 WP may be applied by both ground and aerial equipment. Use sufficient water to obtain full coverage. With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

Mix as needed; do not store diluted material.

Chrysanthemums: For control of *Liomyza* Leafminer flies—Use Astro 25 WP at a rate of 32 ounces (0.5 pound active) per 100 gallons. Avoid spraying the blooms. Astro 25 WP may be applied on a weekly schedule. **Caution:** Cultivars may vary in sensitivity and a small number of plants should be treated to determine plant safety prior to commercial use.

Centers (Container and Field Grown): For control of Nantucket Pine Tip Moth—Use Astro 25 WP at a rate of 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre. Begin application when the adults appear and repeat at 5 to 7 day intervals or as needed throughout the season.

Ornamental Nursery Stock (Field Grown): To control Begworms, Beet Armyworm, Cabbage Looper, Citrus Thrips, *Heliothis* spp., Lacebug, Leafhoppers, Leafminers and Whiteflies—Use 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per 100 gallons of water. Astro 25 WP may be used to control specified pests on non-edible ornamentals and non-bearing plants of fruiting species.

Caution: Astro 25 WP has demonstrated excellent plant safety, however, not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full-scale application.

Pine Seed Orchards: To control Coneworms, Seed Bugs—Use Astro 25 WP at the following rates

For high volume sprayers Use 13 ounces (0.2 pound active) in 100

gallons of water (0.025% dilution by weight). Apply 5 to 10 gallons of finished spray per tree.

For low volume sprayers: Use 66 ounces (1.6 pounds active) in 100 gallons of water (0.125% dilution by weight). Apply 100 gallons per acre.

For aerial application: Use 48 ounces (1.2 pounds active) in not less than 10 gallons of water per acre.

To control Webbing Coneworm—make first application within 1 week of female flower closure or peak pollen flight.

To control other coneworms and seed bugs—make first application within 30 days following female flower closure.

Repeat application at 4 week intervals, but do not apply more than 6 applications. Do not graze or harvest cover crop. Avoid contact with open water.

Rene's Grass: To control Pine Caterpillar—Use Astro 25 WP at a rate of 0.64 to 1.28 ounces (0.01 to 0.02 pound active) per acre. Do not apply within 30 days of harvest.

Pines (Field Grown): For control of *P. strobus* spp., use Astro 25 WP at a rate of 6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre. Apply in 5 gallons of finished spray per acre with ground equipment and 1 gallon per acre by air.

Peas (Greenhouses): For control of Beet Armyworm, Cabbage Looper and Omnivorous Leafroller—Use Astro 25 WP at a rate of 12.8 ounces (0.2 pound active) per 100 gallons of water.

Caution: Varieties may vary in their sensitivity to Astro 25 WP, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

Premises Spray

For agricultural use only.

Spray directly to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

Shake well before measuring.

For Application in	Target Insects	Method of Applic.	Dilute	Applic. Rate
Barns, Stables, Feedlots, Poultry Houses, Swine and Livestock Houses	House Flies, Stable Flies and other Manure Breeding Flies. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders.	Sprayer	6 ounces* to 11 gallons water or 8 level table-spoons to 3 gallons water	1 gallon per 750 square feet of surface

*1 ounce of this powder equals 5 level tablespoons. Shake canister before measuring. Make up only as required.

Re-treat as necessary, but not more often than once every 2 weeks. The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding sites.

RATE CONVERSION CHART

Pounds Active per Acre	Formulation Ounces per Acre	Formulation Pounds per Acre
0.05	3.2	0.2
0.10	6.4	0.4
0.125	8.0	0.5
0.15	9.6	0.6
0.175	11.2	0.7
0.20	12.8	0.8

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 the 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 beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use. 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 damage to crops or livestock or equipment shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

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