



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

10182-370

Date of Issuance:

2-21-97

NOTICE OF PESTICIDE:

- Registration
- Reregistration

Term of Issuance: Conditional  
Expires February 21, 2000

Name of Pesticide Product:

Pirimor® 50-DF Insecticide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Saundra M. O'Bryan  
Zeneca Ag Products  
1800 Concord Pike  
P.O. Box 15458  
Wilmington, DE 19850-5458

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The Agency is conditionally registering the above referenced product under the authority of Section 3(c)(7)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended. This allows a 3-year time limited registration on alfalfa grown for seed in the states of Idaho, Nevada, Oregon, and Washington which will expire automatically on February 21, 2000 unless the conditions described below are met.

1. To support the use of pirimicarb on alfalfa grown for seed in the states of Idaho, Nevada, Oregon, and Washington you must submit the following studies by June 30, 1998:

- 1) Acute Neurotoxicity Study (rodent: 81-8SS),
- 2) Subchronic 90-day Feeding Study (rodent: 82-1(a))
- 3) Avian Reproduction Studies (2) (71-4).

Signature of Approving Official:

DHE

Date:

FEB 21 1997

2. In order to assure that the use of pirimicarb will not be expanded beyond the terms of this limited conditional registration, you must comply with the following conditions agreed upon in your letter dated January 31, 1997:

a) Limit production of pirimicarb technical to no more than 30,000 pounds annually for each of the next 3 years (a total of 90,000 pound of active ingredient over a 3 year period). This corresponds to 60,000 pounds of end-use product (Pirimor® 50-DF) per year (or 180,000 pounds over the 3 year period); and

b) Submit an annual report of production, sales, and usage of the active ingredient pirimicarb by November 1st of each year. The production cap will be reconsidered at the end of the 3 year period. It may be renewed or could be dropped depending on the results of the studies that are to be submitted.

3. Make the following changes to your label:

a) Revise the EPA Registration Number to read, "EPA Reg. No. 10182-370".

b) In the GENERAL USE PRECAUTIONS, change the following sentence "Do not apply by ground equipment within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds" to "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."

4. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

5. Submit two copies of the revised final printed label for the record.

The Agency is aware that the states of Montana and Wyoming are currently working on regulations in their states which would ensure that no part of crops grown for seed will be diverted into the food chain. They expect final rules to be in place in time for the 1997 use season. The use of pirimicarb on alfalfa grown for seed in the states of Montana and Wyoming has been reviewed by the Agency and concluded to not pose significant additional risk. However, these states will not be included in this registration until these regulations have become finalized. Registration Division will review supplemental labeling submitted by Zeneca, Inc. for each state upon receipt and acceptance of the final rules.

You should note that if you fail to satisfy any of the conditions imposed on this registration, e.g., you fail to submit the required data or the data submitted were not generated in accordance with the applicable Agency guidelines and/or approved Agency protocols, EPA may issue a Notice to cancel this registration under Section 6(e) of FIFRA.

The Agency will not renew or extend this registration (except as listed above for the states of Montana and Wyoming), and/or issue 24(c) registrations or a full registration under Section 3 of FIFRA, until the additional data have been submitted, reviewed and found acceptable.

The following information is given to you as a guide in the event that you wish to pursue registration for additional uses of pirimicarb.

#### SUMMARY OF DATA GAPS REQUIRED FOR ANY ADDITIONAL USE OF PIRIMICARB

##### Residue Chemistry

No data are required for a non-food use. A full complement of residue chemistry data will be required for any future food use registration requests for pirimicarb.

##### Toxicology

###### **Non-Food uses:**

- 1) Acute Neurotoxicity Study (rodent: 81-8SS)
- 2) Subchronic 90-day Feeding Study (rodent: 82-1(a)).

###### **Food uses:**

- 1) Chronic Feeding Study (rodent: (83-1(a))
- 2) Oncogenicity (rats: (83-2(a))
- 3) Oncogenicity (mice: (83-2(b))
- 4) General Metabolism Study (85-1)

##### Occupational/Residential

No data are required for the non-food use. Requirements for future Section 3 registrations will be determined on a case-by-case basis.

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Environmental Fate

- 1) Hydrolysis (161-1)
- 2) Photolysis in Water (161-2)
- 3) Photolysis on Soil (161-3)
- 4) Anaerobic Soil Metabolism (162-2)
- 5) Mobility - Leaching and Adsorption/Desorption for the degradate Compounds III, V, and VI (163-1)
- 6) Terrestrial Field Dissipation (164-1)

Ecological Effects

- 1) Avian Reproduction Studies (2) (71-4)
- 2) Additional data based on use pattern.

Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Sincerely yours,



Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure

**PIRIMOR® 50-DF Insecticide**

**N-Methyl Carbamate**

**FOR USE ONLY IN IDAHO, NEVADA, OREGON AND WASHINGTON  
ON ALFALFA GROWN FOR SEED.**

**ACTIVE INGREDIENT:**

2-(dimethylamino)-5,6-dimethyl-4-pyrimidinyl dimethylcarbamate ..... 50%

**INERT INGREDIENTS:** ..... 50%

**TOTAL** ..... 100%

Contains 50 pounds of active ingredient per 100 pounds.

EPA Reg. No. 10182-  
EPA Est. No.

Contents:

**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.)

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
FEB 21 1997**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
10182-~~370~~ 370

Manufactured in the UK for distribution by:  
**ZENECA Ag Products**  
**ZENECA Inc.**  
Wilmington, DE 19850-5458

**STATEMENT OF PRACTICAL TREATMENT****FIRST AID**

Immediately start the procedures given below. If further treatment is required, contact a Poison Control Center, a physician, or the nearest hospital.

**IF SWALLOWED:** Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Call a physician if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably by mouth-to-mouth. Get medical attention.

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**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D (327-8633)**

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

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**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****WARNING**

**MAY BE FATAL IF SWALLOWED. CAUSES SKIN AND EYE IRRITATION.** Avoid breathing dust. Avoid contact with skin, eyes, or clothing.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:

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

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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### 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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
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### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

**CONDITIONS OF SALE  
AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.



**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.

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**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.

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

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**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, sweep up and remove to chemical waste area.

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**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 at 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.

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**APPLICATION DIRECTIONS**

**ALFALFA GROWN FOR SEED:** For control of aphids. Apply 2 to 6 oz. of PIRIMOR 50-DF per acre by ground or aerial application. The higher rate is recommended for instances of heavy infestations of aphids. Spray to wet foliage completely. Minimal application spray volume is 10 gal. per acre by ground and 5 gal. per acre by air.

For the most effective and economic control, begin to apply PIRIMOR 50-DF as soon as aphids appear.

**PRE-HARVEST INTERVAL (PHI):** A PHI of 1 day is required after application of PIRIMOR.

**GENERAL USE PRECAUTIONS**

- PIRIMOR 50-DF is to be applied at a rate not to exceed 6 ounces of product per acre per season.
- PIRIMOR 50-DF may be applied a maximum of twice per season not to exceed 6 ounces of product per acre per season (i.e., two applications at 3 oz. each). For a second application, reapply in no less than 7 to 10 days.
- Do not apply when weather conditions favor drift from treated areas.
- Make ground applications when the wind velocity favors on target product deposition, (approximately 3-10 mph). Do not apply when wind velocity exceeds 10 mph.
- Do not apply by ground equipment within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.
- Applicators and alfalfa seed growers are required to report to EPA Headquarters, the EPA Regional Office and the State Department of Agriculture any adverse effects to birds resulting from the use of this pesticide.
- A 100-yard buffer zone is required between the border of PIRIMOR 50-DF application sites and lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

- 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.
- Ultra Low Volume (ULV) applications are prohibited.
- The largest droplet size consistent with good pest control is required. 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.
- Aerial applications should be made when the wind velocity favors on-target product deposition. Do not apply when wind velocity exceeds 10 mph. Avoid applications when wind gusts approach 10 mph.
- To avoid risk of exposure to sensitive aquatic areas, aerial applicators should avoid application when wind direction is toward aquatic areas.
- 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 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.
- For use only on fields in production of alfalfa seed. Not for use on fields producing alfalfa for livestock feed. No portion of the treated field, including seed, seed screenings, hay forage or stubble, may be used for human or animal feed.
- Do not cut current years' treated alfalfa seed crop for hay or forage. Do not graze current years' treated alfalfa seed crops.
- Screening from alfalfa seed processing are prohibited from feed channels. All PIRIMOR 50-DF treated alfalfa seed screening must be removed from the feed market.
- Treated alfalfa seed is not to be used for sprouting. All alfalfa seed treated with PIRIMOR 50-DF is to be tagged at processing plants, NOT FOR HUMAN CONSUMPTION. It shall be the grower's responsibility to notify the processing plants of any seed crop treated with PIRIMOR 50-DF.

- In Oregon, for use on fields of alfalfa grown for seed (operated by members of the Oregon Alfalfa Seed Growers Association, the Gardena Alfalfa Seed Growers Association, Inc., or the Josephine Growers' Cooperative Association and) located in Malheur, Umatilla, Morrow, Jackson or Josephine Counties of Oregon.
- Do not apply this product through any type of irrigation system.

**COMPATIBILITY:** Do not use with oxidizing agents.

PIRIMOR® is a trademark of a ZENECA Group Company