



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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

April 15, 2010

Ms. Jan Brill  
Bayer Environmental Science  
2 T.W. Alexander Drive  
Raleigh, NC 27709

Subject: Label Notification(s) for Pesticide Registration Notices  
2007-4 (Revising the Container Disposal Statement) and updating the  
Warranty Statement

Dear Ms. Brill:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice PRN 2007-4 dated March 23, 2010 for the following product(s):

**Pyrenone Crop Spray (EPA Reg. No. 432-1033)**  
**Pyrenone 25-5 M.A.G.C. (EPA Reg. No. 432-1050)**  
**Permanone Multi-Purpose 10% E.C. (EPA Reg. No. 432-1132)**  
**Permanone 31% Butacide 66% Manufacturing Concentrate (EPA Reg. No. 432-1150)**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact Regina Foushee'-Smith at 703-605-0780.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard J. Gebken".

Richard J. Gebken  
Product Manager  
Insecticide Branch  
Registration Division (7505P)



**EPA**

United States  
**Environmental Protection Agency**  
Washington, DC 20460

- Registration
- Amendment
- Other:

OPP Identifier Number

**Application for Pesticide - Section I**

|  |   |   |
|--|---|---|
| 1. Company/Product Number<br><b>432-1050</b>   | 2. EPA Product Manager<br><b>Richard Gebken</b>   | 3. Proposed Classification<br><input type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br><b>Pyrenone 25-5 M.A.G.C.</b>   | PM#<br><b>10</b>  |   |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>Bayer Environmental Science<br/>2 T.W. Alexander Dr.<br/>Raleigh, NC 27709</b> | 6. <b>Expedited Review</b> . In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar in composition and labeling to:<br><b>NOTIFICATION</b><br>EPA Reg. No. <u>APR 15 2010</u><br>Product Name _____ |   |

Check if this is a new address

**Section - II**

- Amendment - Explain below.
- Resubmission in response to Agency letter dated \_\_\_\_\_
- Notification - Explain below.
- Final printed labels in response to Agency letter dated \_\_\_\_\_
- "Me Too" Application
- Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Notification of label changes per PR Notice 2007-4 and PR Notice 98-10**

Notification of label changes per PR Notices 2007-4, and PR Notice 98-10. This notification is consistent with the guidance of PR Notice 2007-4, 98-10 and EPA regulations at 40 CFR § 156.10, 156.80, 156.140, 156.144, 156.146, 156.156, and 152.46. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 2007-4, 98-10 and 40 CFR § 156.10, 156.80, 156.140, 156.144, 156.146, 156.156, and 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

|   |  |   |   |  |   |
|---|--|---|---|--|---|
| 1. Material This Product Will Be Packaged In:   |  |   |   | 2. Type of Container   |   |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No                    | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |   | <input checked="" type="checkbox"/> Metal  | <input checked="" type="checkbox"/> Plastic |
| *Certification must be submitted  |  | If "Yes" Unit Packaging wgt. No. per container  | If "Yes" Package wgt. No. per container | <input type="checkbox"/> Glass   | <input type="checkbox"/> Paper              |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container |  | 4. Size(s) Retail Container<br>1 oz. to 55 gallons  |   | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product |   |
| 6. Manner in Which Label is Affixed to Product  |  |   |   | <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Other _____  |   |
|   |  |   |   | <input checked="" type="checkbox"/> Paper glued  |   |
|   |  |   |   | <input type="checkbox"/> Stenciled   |   |

**Section - IV**

|  |   |  |
|--|---|--|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)   |   |  |
| Name<br><b>Jan Brill</b>   | Title<br><b>Manager, Registrations</b>    | Telephone No. (Include Area Code)<br><b>419/549-2421</b> |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |   | 6. Date Application Received (Stamped)                   |
| 2. Signature<br>   | 3. Title<br><b>Manager, Registrations</b> |  |
| 4. Typed Name<br><b>Jan Brill</b>  | 5. Date<br><b>23 March 2010</b>           |  |

**Pyrenone 25-5 M.A.G.C.**  
**EPA Reg. No. 432-1050**  
**23 March 2010**

**Section II Explanation – Continued**

Notification of changes to labeling

1. Page 8, Revised container disposal statement in accordance with PR Notice 2007-4
2. Page 9, Revised Warranty statement as outlined on Page 9 of Chapter 12 in the EPA Label Review Manual

# Bayer Environmental Science



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Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

ATTN: Richard Gebken, PM #10

Subject: Pyrenone 25-5 M.A.G.C., EPA Reg. No. 432-1050  
Notification of Label Changes per PR Notices 2007-4 & 98-10

Dear Mr. Gebken,

With this submission, Bayer Environmental Science notifies EPA of Label Changes to bring the subject product into compliance with PR Notice 2007-4, and to update the warranty statement as outlined on Page 9 of Chapter 12 in the EPA Label Review Manual.

To effect this action, enclosed please find the following:

1. EPA Form 8570-1 with explanation page
2. 1 copy of proposed labeling for the subject product
3. 1 copy of proposed labeling with the changes highlighted

I trust that this completes the documentation for this registration action. If you have any questions, or require further information, please contact me either by telephone at 919/549-2421 or email at [jan.brill@bayercropscience.com](mailto:jan.brill@bayercropscience.com)

Sincerely,

Manager, Registration

Email: [jan.brill@bayercropscience.com](mailto:jan.brill@bayercropscience.com)

March 23, 2010

Bayer Environmental  
Science  
P.O. Box 12014  
2 T.W. Alexander Drive  
Research Triangle Park,  
NC 27709

Tel. 919 549-2421  
Fax. 919-549-3937

APR - 6 2010

A Division of Bayer CropScience

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# NOTIFICATION

APR 15 2010

## PYRENONE<sup>®</sup> 25-5 M.A.G.C.

- \* FOR APPLICATION AS A SPACE, AREA OR CONTACT SPRAY. DEPENDENT UPON PESTS TO BE CONTROLLED AND THE AREA TO BE TREATED, MAY BE APPLIED THROUGH MECHANICAL AEROSOL GENERATORS (ULV) OR THERMAL FOGGING EQUIPMENT AS WELL AS CONVENTIONAL FOGGING OR SPRAYING EQUIPMENT.
- \* MAY BE USED OVER ALL CROPS.
- \* THE ACTIVE INGREDIENTS ARE EXEMPT FROM TOLERANCES WHEN APPLIED TO GROWING CROPS [see 40 CFR § 180.905]

### ACTIVE INGREDIENTS

Pyrethrins .....5.0%

\*Piperonyl Butoxide, Technical .....25.0%

†OTHER INGREDIENTS .....70.0%  
100.0%

\*Equivalent to min 20% (butylcarbityl) (6-propylpiperonyl) ether and 5% related compounds.

†Contains Petroleum Distillates

†Contains 0.367 pounds of Pyrethrins per gallon.

†Contains 1.83 pounds of Piperonyl Butoxide per gallon.

EPA REG. NO. 432-1050

EPA EST. NO.

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### FIRST AID

|  |   |
|--|---|
| <b>If swallowed</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If inhaled</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>                                       |
| <b>If in eyes</b>  | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                    |
| <b>If on skin or clothing</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-334-7577. |   |
| <b>Note To Physician:</b> Contain petroleum distillates – vomiting may cause aspiration pneumonia.   |   |

See Rear Panel For Additional Precautions

## PRECAUTIONARY STATEMENTS

### Hazards To Humans & Domestic Animals

#### CAUTION

Harmful if swallowed or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Remove pets, birds and cover fish aquaria before spraying.

#### Environmental Hazards

This pesticide is highly toxic to fish. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

TERRESTRIAL USES: (for wide area mosquito control specific Environmental Hazards see below): do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters."

WIDE-AREA MOSQUITO CONTROL APPLICATIONS BY GROUND OR AERIAL EQUIPMENT. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries) except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

Do not apply to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by the state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

### DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
READ ENTIRE LABEL FOR DIRECTIONS**

#### WIDE AREA MOSQUITO CONTROL

FOR USE ONLY BY FEDERAL, STATE, TRIBAL OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH OR VECTOR CONTROL, OR BY PERSONS CERTIFIED BY THE STATE OR TRIBAL LEAD PESTICIDE REGULATORY AGENCY TO PERFORM ADULT MOSQUITO CONTROL APPLICATION, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if permits or other regulatory requirements exist.

Pyrenone 25-5 M.A.G.C provides effective control of adult mosquitoes, all common diptera in areas such as but not limited to industrial areas, urban areas, parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, and other public areas where adult mosquitoes and flies occur. Pyrenone 25-5 M.A.G.C. may be used over agricultural crops because the ingredients are exempt from tolerance when applied to growing crops. For best results, apply when meteorological conditions create a temperature inversion and ground wind speed is equal to or greater than 1 mph. The application should be made so the wind will carry the insecticidal fog into the area being treated. Pyrenone 25-5 M.A.G.C can be applied as undiluted or diluted with refined soybean oil, light mineral oil of 54 second viscosity or other suitable solvent or diluent. Pyrenone 25 M.A.G.C. can be applied undiluted or diluted with refined soybean oil, light mineral oil of 54 second viscosity, or other suitable solvent or diluent. Use a white mineral oil diluent conforming to regulation 21CFR 178.3620(b) or a odorless light petroleum hydrocarbon diluent conforming to 21CFR 172.882 or 40 CFR 180.910 (Inert ingredients used pre- and post-harvest; exemptions from the requirement of a tolerance), and 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance).

#### Spray Droplet Size Determination

##### Ground Equipment:

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns ( $Dv\ 0.5 < 30\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 50 microns ( $Dv\ 0.9 < 50\ \mu m$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

##### Aerial Equipment:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 100 microns (Dv 0.9 < 100 µm). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

All types of applications should be conducted at temperatures at or above 50°F. Apply when ground wind speeds are equal to or greater than 1mph.

**GROUND APPLICATION**

Vehicle-Mounted ULV Cold Aerosol Generators or Vehicle-Mounted Non-Thermal Aerosol (Cold Fog): Apply through non-thermal ULV application equipment and base acreage calculations on the equipment manufacturer's recommended swath width. Apply at a rate not to exceed 0.0025 pounds of pyrethrins per acre in any given 24 hour period. An optimum swath is created when Pyrenone 25-5 M.A.G.C. is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. An inversion of air temperatures and a light breeze is preferable. Do not exceed 25 applications at 0.0025 pounds of pyrethrins per acre (not to exceed a total of 0.0625 pounds of pyrethrins per acre) in any given season. More frequent applications may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort. Application during the cooler hours of the night or early morning is recommended.

Pyrenone 25-5 M.A.G.C. may be applied through ULV Cold Aerosol Generators, or other equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained under different conditions by altering the dilution rate of Pyrenone 25-5 M.A.G.C., the flow rate of the insecticide from the application equipment and the vehicle speed.

Pyrenone 25-5 M.A.G.C. may also be diluted with oil or suitable solvent and apply so as not to exceed the maximum pounds of active ingredient per acre as show in the table below. If an alternative dilution rate is used, adjust the flow rate accordingly, provided the droplet size and spectrum remains with label specifications.

**WIDE AREA MOSQUITO CONTROL (continued)**

|                                       |                     | Flow Rate (Fluid Ounces Per Minute) |             |             |
|---------------------------------------|---------------------|-------------------------------------|-------------|-------------|
| Application rate (lb pyrethrins/acre) | Vehicle Speed (MPH) | Undiluted                           | Diluted 1:1 | Diluted 1:2 |
| 0.0009                                | 5                   | 1.0                                 | 1.9         | 2.9         |
|                                       | 10                  | 1.9                                 | 3.8         | 5.7         |
|                                       | 15                  | 2.9                                 | 5.7         | 8.6         |
|                                       | 20                  | 3.8                                 | 7.6         | 11.4        |
| 0.0018                                | 5                   | 1.9                                 | 3.8         | 5.7         |
|                                       | 10                  | 3.8                                 | 7.6         | 11.4        |
|                                       | 15                  | 5.7                                 | 11.4        | 17.1        |
|                                       | 20                  | 7.6                                 | 15.2        | 22.8        |
| 0.0025                                | 5                   | 2.6                                 | 5.3         | 7.8         |
|                                       | 10                  | 5.3                                 | 10.6        | 15.8        |
|                                       | 15                  | 7.9                                 | 15.8        | 23.8        |
|                                       | 20                  | 10.6                                | 21.2        | 31.8        |

**AERIAL APPLICATION:** To control adult mosquitoes and biting flies, Pyrenone 25-5 M.A.G.C. may be applied either diluted or undiluted at rates up to 0.0025 pounds pyrethrins per acre by fixed wing or rotary aircraft that are capable of making a ULV application. Do not apply by fixed wing aircraft at a height less than 100 feet, or by helicopter at a height less than 75 feet unless specifically approved by the state or tribe based on public health needs. Do not exceed 25 applications at 0.0025 pounds of pyrethrins per acre (not to exceed 0.0625 pounds of pyrethrins per acre) in any given season. More frequent applications may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. In order to compensate for windy conditions and ensure drift onto the target area aerial application with aircraft equipped with Global Positioning Systems (GPS) is recommended.

**Backpack Spray Application:** Dilute 1 part Pyrenone 25-5 M.A.G.C. with 10 parts oil or suitable diluent and apply at the rate of 7 ounces per acre (based on a 50 foot swath, 7 ounces should be applied while walking 870 feet).

Do not apply as a space spray while food processing is underway. Except in Federally inspected meat and poultry plants, when applied as a surface spray with care and in accordance with the directions and precautions given above, food processing operations may continue. Foods should be removed or covered before treatments. In food processing areas, all surfaces must be washed with a suitable detergent and rinsed in potable water after spraying.

When using in animal quarters, do not apply directly to food, water or food supplements. Wash teats of dairy animals before milking.

**USE RESTRICTIONS FOR SPACE CONTACT OR ANIMAL QUARTER USE**

- Apply this product only as specified on this label.
- Do not remain in treated area.
- Do not allow adults, children, or pets to enter until treated area has been thoroughly ventilated.
- Do not apply directly to food.
- Remove and cover all food and water before use.
- Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces before use, or wash them thoroughly after ventilation of treated area.
- All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse after use of this product.
- Remove pets, birds and cover fish aquariums and turn off air pump motor before application.
- In health care facilities, remove patients prior to treatment and thoroughly ventilate treated area for two hours before returning patients.

**SPACE AND/OR CONTACT USE AREAS:**

- |                          |                       |
|--------------------------|-----------------------|
| Bakeries                 | Meat Packaging Plants |
| Beverage Plants          | Motels                |
| Canneries                | Office Buildings      |
| Cattle Barns             | Poultry Houses        |
| Dried Food Products      | Railroad Cars         |
| In Storage or Processing | Restaurants           |
| Flour Mills              | Schools               |
| Food Processing Plants   | Stored Food in Multi- |
| Grain Elevators          | Wall Paper or Cloth   |
| Granaries                | Bags                  |
| Homes                    | Supermarkets          |
| Horse Barns              | Swine Houses          |
| Hospitals                | Truck Trailers        |
| Hotels                   | Warehouses            |
| Industrial Installations | Wineries              |
|                          | Zoos                  |

**OUTDOOR USE AREAS:**

- |                      |                    |
|----------------------|--------------------|
| Corrals              | Parks              |
| Drive-in Restaurants | Playgrounds        |
| Drive-in Theaters    | Recreational areas |
| Feedlots             | Residences         |
| Golf Courses         | Swine Yards        |
| Municipalities       | Vineyards          |
|                      | Zoos               |

PYRENONE® 25-5 M.A.G.C. is effective in the control of the indicated insects if the applicator follows directions for use as enumerated below:

|                              |                                  |
|------------------------------|----------------------------------|
| <i>All Common Diptera</i>    |                                  |
| <i>Angoumois grain moths</i> | <i>Horn Flies</i>                |
| <i>Ants</i>                  | <i>Hornets</i>                   |
| <i>Boxelder Bugs</i>         | <i>Horse Flies</i>               |
| <i>Cadellas</i>              | <i>House Flies</i>               |
| <i>Cheese Mites</i>          | <i>Indian Meal Moths</i>         |
| <i>Cheese Skippers</i>       | <i>Lice</i>                      |
| <i>Cigarette Beetle</i>      | <i>Mediterranean Flour Moths</i> |
| <i>Clover Mites</i>          | <i>Mosquitoes</i>                |
| <i>Cockroaches</i>           | <i>Red Flour Beetles</i>         |
| <i>Confused Flour Beetle</i> | <i>Rice Weevils</i>              |
| <i>Dark Mealworms</i>        | <i>Saw-toothed Grain Beetles</i> |
| <i>Deer Flies</i>            | <i>Small flying Moths</i>        |
| <i>Dried Fruit Beetles</i>   | <i>Spider Beetles</i>            |
| <i>Drugstore Beetles</i>     | <i>Stable Flies</i>              |
| <i>Earwigs</i>               | <i>Tobacco Moths</i>             |
| <i>Fleas</i>                 | <i>Wasps</i>                     |
| <i>Fruit Flies</i>           | <i>Yellow Mealworms</i>          |
| <i>Gnats</i>                 |                                  |
| <i>Grain Mites</i>           |                                  |
| <i>Granary Weevils</i>       |                                  |

In hospitals, remove patients before treatment. Ventilate room for 2 hours following treatment before returning patients.

#### **INDOOR USE AS A SPACE SPRAY, UNDILUTED:**

The use of this product in food processing or food handling establishments (bakeries, beverage plants, canneries, food processing plants, hospitals, hotels, industrial installations, meat packing plants, restaurants, schools, supermarkets and warehouses) should be confined to time periods when the plants or facilities are not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned with a suitable detergent and rinsed with potable water before using.

Close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray of 10-25 microns VMD. Apply at a rate of ½ oz. per 1000 cu. ft. of space. Direct the spray toward the ceiling and upper corners of the area and behind obstructions. Keep the area closed for at least 15 minutes. Vacate the treated area and ventilate before reoccupying. Do not apply more than 1 time per day.

The above described application will kill accessible exposed stages of fleas, flies (including fruit flies), mosquitoes, small flying moths, gnats, wasps, hornets, clover mites, cheese mites, cheese skippers, boxelder bugs, earwigs, ants and the following common stored product pests: granary weevils, rice weevils, confused flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, angoumois grain moths, Mediterranean flour moths, Indian meal moths, tobacco moths, yellow mealworms, dark mealworms, grain mites, cadelles and red flour beetles.

**DRIED FRUIT PRODUCTS** in storage or being processed for control of confused flour beetles, dried fruit beetles, Indian meal moths or saw-toothed grain beetles. Remove and destroy infested products. As noted above, disperse this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use 1 oz. per 1000 cu. ft. of space. Repeat application at this dosage in any given month. Leave the room closed for 1 hour. Do not remain in treated areas and ventilate area before re-entry. This application will kill accessible exposed stages of dried fruit beetles as well as those pests named above.

**STORED FOOD** (Stored in multi-walled bags or in cloth bags) in warehouses, storage rooms, flour mills, grain elevators, granaries, for control of angoumois grain moths, cadelles, confused flour beetles, Indian meal moths, Mediterranean flour moths, rice weevil, saw-toothed grain beetles, yellow mealworms, cheese mites, cheese skippers, cigarette beetles, grain mites, granary weevils, dark mealworms and red flour beetles. Remove and destroy infested products. As noted above, disperse this product, first by directing spray into corners, under pallets and around stacks of packaged foods hitting as many insects as possible and then treat as a space spray. Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this purpose. Use a dosage of 1 fl.oz. per 1000 cu. ft. of room space. Repeat application as necessary for insect control. Leave room closed for 1 hour. Do not remain in treated areas and ventilate area before re-entry. This application will kill accessible, exposed stages of those stored product pests listed above.

#### **INDOOR USE AS A SPACE SPRAY, DILUTED:**

For use in conventional mechanical fogging equipment, to kill *Flies, Fruit Flies, Mosquitoes, Small Flying Moths and Gnats*. Cover or remove exposed food and food handling surfaces. Close room and shut off all air conditioning or ventilating equipment. Dilute 1 part of Pyrenone 25-5 M.A.G.C. plus 49 parts of oil or suitable solvent and mix well.

Use a white mineral oil diluent conforming to regulation 21CFR 178.3620(b) or an odorless light petroleum hydrocarbon diluent conforming to 21CFR 172.882 or 40 CFR 180.910 (Inert ingredients used pre- and post-harvest; exemptions from the requirement of a tolerance), and 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance). Using equipment adjusted to deliver aerosol droplets (30 microns or less), apply at the rate of 1-2 fl. oz. per 1000 cu. ft. filling the room with mist. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment when reinfestation occurs, but not more than one per day.

**SURFACE SPRAY:** To insure maximum control of crawling insects (ants, boxelder bugs, clover mites, cockroaches, drugstore beetles, earwigs, lice, spider beetles), dilute 1 part of Pyrenone 25-5 M.A.G.C. plus 49 parts oil or suitable solvent and mix well. Apply as a coarse droplet spray using approximately 1 gal to 750 sq. ft. of surface. Spray walls, floor and other surfaces of bins and storage and handling areas thoroughly, being careful to treat cracks, crevices and similar hiding places. Treat unloading, handling and processing areas and inside conveying, processing and handling equipment. Spray thoroughly around the bases of heavy machinery and equipment. Spray insects directly when possible.

For in-transit protection, clean and spray truck beds, boxcars and ship's holds before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked.

**TO CONTROL INDIAN MEAL MOTHS AND ANGOUMOIS GRAIN MOTHS** in stored grain, apply to the surface of binned grain at a rate of 1 gallon per 1000 sq. ft. Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing with a rake before spraying and make a second application in 2 weeks.

As an aid in the control of *Mosquitoes, Gnats, Wasps and Skippers*: Treat walls, ceilings, moldings, screens, door and window frames, light cords and similar resting places.

**ANIMAL QUARTER USE:** (cattle barns, horse barns, poultry houses, swine houses, zoos): As a space spray diluted for use in conventional mechanical fogging equipment to kill *Flies, Mosquitoes, Small Flying Moths and Gnats*. Dilute 1 part of Pyrenone 25-5 M.A.G.C. plus 49 parts oil or suitable solvent and mix well. Apply at a rate of 2 fl. oz. per 1,000 cu. ft. of space above the animals. Direct spray towards the upper portions of the enclosure. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment when reinfestation occurs, but not more than once per day.

**TEMPORARY REDUCTION OF ANNOYANCE** from *Flies, Mosquitoes and Small Flying Moths* outdoors. The directions for outdoor ground application noted below will afford temporary reduction of annoyance from these pests in public theaters, golf courses, municipalities, parks, playgrounds and recreational areas. Direct application into tall grass, shrubbery and around lawns where these pests may hover or rest. Avoid wetting foliage. Application should be made prior to attendance. Repeat as necessary, but not more than once per day.

In treatment of corrals, feed lots, swine lots, and zoos, cover any exposed drinking water, drinking water fountains and animal feed before application. Treat area with mist, directing application into tall grass, shrubbery and around lawns where these pests may hover or rest. Avoid wetting foliage. In zoos, avoid exposure of reptiles to the product. Repeat as necessary.

FOR USE ON ANIMALS: To protect beef and dairy cattle and horses from *Fleas, Horn Flies, House Flies, Mosquitoes and Gnats*, dilute 1 part of Pyrenone 25-5 M.A.G.C. plus 49 parts oil or suitable solvent, mix well and apply a light mist sufficient to wet the tips of the hair. To control *Stable Flies, Horse Flies and Deer Flies* on beef and dairy cattle and horses, apply 2 oz. per adult animal, sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at intervals to give continued protection. To control the motile stages of **blood-sucking lice** on beef and dairy cattle, apply the spray to thoroughly wet hair. Use 2 oz. or less per animal and repeat every 2 or 3 weeks as required.

Do not use on dogs or cats

**USE RESTRICTIONS FOR USE ON ANIMALS**

- Do not apply more than 1 time per day.
- Do not reapply within 1 day.
- Do not remain in treated area.
- Do not allow unprotected persons to enter until treated area has been thoroughly ventilated

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

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:**

Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with mineral oil. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. 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.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with mineral oil. Agitate vigorously or recirculate mineral oil with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. 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.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

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**NET CONTENT:**

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