



# Pyrenone® 25-5

**PUBLIC HEALTH INSECTICIDE**

*Specimen Label*

- \* **FOR USE BY TRAINED PERSONNEL ONLY.**
- \* **TO BE APPLIED ONLY BY OR UNDER THE SUPERVISION OF PEST CONTROL OPERATORS, MOSQUITO ABATEMENT DISTRICTS, PUBLIC HEALTH ORGANIZATIONS AND OTHER TRAINED PERSONNEL RESPONSIBLE FOR INSECT CONTROL PROGRAMS.**
- \* **FOR INDOOR AND OUTDOOR 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 § 180.1001 (b)]**

**ACTIVE INGREDIENTS**

◆Pyrethrins .....	5.0%
*▲Piperonyl Butoxide, Technical .....	25.0%
†OTHER INGREDIENTS .....	70.0%
	100.0%

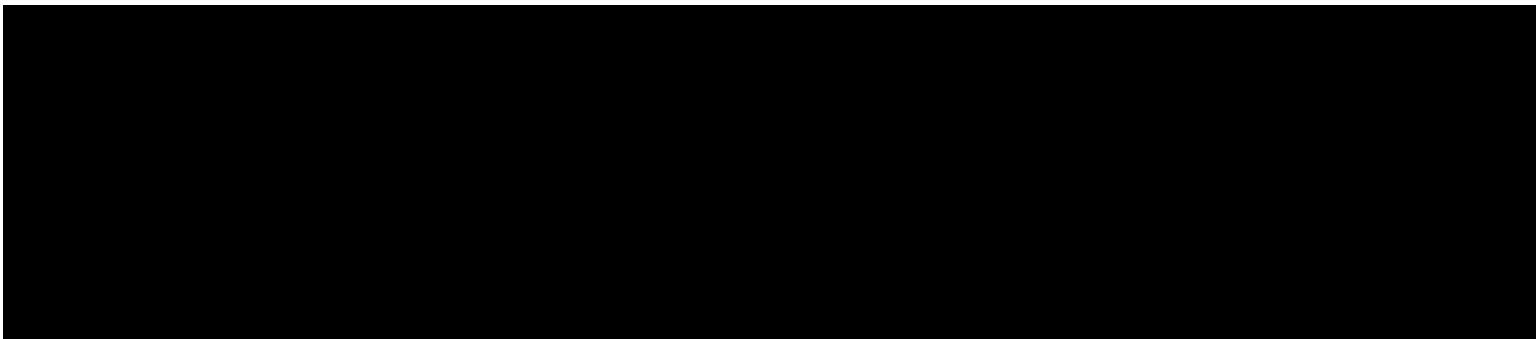
\*Equivalent to min 20% (butylcarbityl) (6-propylpiperonyl) ether and 5% related compounds.  
 †Contains Petroleum Distillate  
 ◆Contains 0.367 pounds of Pyrethrins per gallon.  
 ▲Contains 1.83 pounds of Piperonyl Butoxide per gallon.

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**  
 See Rear Panel For Additional Precautions

EPA REG. NO. 432-1050

EPA EST. NO. 432-TX-1

**NET CONTENTS: 2.5 gallon, 5 gallon,  
 30 gallon and 55 gallon**



<b>FIRST AID</b>	
IF SWALLOWED:	<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 the 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>
IF INHALED:	<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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
IF IN EYES:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 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>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER: 1-800-331-2867</b> [Pyrethrins]	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information.	
<b>Note To Physician:</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

## 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 re-use. Remove pets, birds and cover fish aquaria before spraying.

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 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.

#### Environmental Hazards

This product is toxic to fish. For terrestrial uses, do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### 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-Wall Paper or Cloth Bags
Grain Elevators	Supermarkets
Granaries	Swine Houses
Homes	Truck Trailers
Horse Barns	Warehouses
Hospitals	Wineries
Hotels	Zoos
Industrial Installations	

#### OUTDOOR USE AREAS:

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

PYRENONE® 25-5 Public Health Insecticide is effective in the control of the indicated insects if the applicator follows directions for use as enumerated below:

#### *All Common Diptera*

<i>Angoumois grain moths</i>	<i>Granary Weevils</i>
<i>Ants</i>	<i>Horn Flies</i>
<i>Boxelder Bugs</i>	<i>Hornets</i>
<i>Cadellas</i>	<i>Horse Flies</i>
<i>Cheese Mites</i>	<i>House Flies</i>
<i>Cheese Skippers</i>	<i>Indian Meal Moths</i>
<i>Cigarette Beetle</i>	<i>Lice</i>
<i>Clover Mites</i>	<i>Mediterranean Flour Moths</i>
<i>Cockroaches</i>	<i>Mosquitoes</i>
<i>Confused Flour Beetle</i>	<i>Red Flour Beetles</i>
<i>Dark Mealworms</i>	<i>Rice Weevils</i>
<i>Deer Flies</i>	<i>Saw-toothed Grain Beetles</i>
<i>Dried Fruit Beetles</i>	<i>Small Flying Moths</i>
<i>Drugstore Beetles</i>	<i>Spider Beetles</i>
<i>Earwigs</i>	<i>Stable Flies</i>
<i>Fleas</i>	<i>Tobacco Moths</i>
<i>Fruit Flies</i>	<i>Wasps</i>
<i>Gnats</i>	<i>Yellow Mealworms</i>
<i>Grain Moths</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 1 fl. 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. Repeat treatment as necessary.

The above described application will kill accessible exposed stages of **flies, 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 Public Health Insecticide plus 49 parts of oil or suitable solvent and mix well. 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.

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 Public Health Insecticide 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 Public Health Insecticide 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.

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. Apply while air is still. Avoid wetting foliage. Application should be made prior to attendance. Repeat as necessary.

In additional outdoor areas (corrals, feedlots, swine lots and zoos), cover water, drinking fountains and animal feed before use. Treat area with mist, directing application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. 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 **Flies, Horn Flies, House Flies, Mosquitoes and Gnats**, dilute 1 part of Pyrenone 25-5 Public Health Insecticide 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.

#### USE IN MOSQUITO CONTROL

Pyrenone 25-5 Public Health Insecticide may be used for mosquito control programs involving residential, industrial, recreational and agricultural areas as well as swamps, marshes, overgrown waste areas, roadsides and pastures where adult mosquitoes occur. Pyrenone 25-5 Public Health Insecticide 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 wind speed does not exceed 10 miles per hour. The application should be made so the wind will carry the insecticidal fog into the area being treated. Treatment may be repeated as necessary to achieve the desired level of control.

When used in cold aerosol generators that produce a fog with the majority of droplets in the 10-25 micron VMD range, Pyrenone 25-5 Public Health Insecticide should be used diluted with light mineral oil or suitable solvent (specific gravity of approximately 0.8 at 60°F; boiling point: 500-840°F). An N.F. grade oil is preferred.

**GROUND APPLICATION:** To control adult mosquitoes and all common diptera, apply up to 0.0025 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations).

**Truck-Mounted ULV Application:** The delivery rate and truck speed may be varied as long as the application rate does not exceed 0.0025 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations).

**Backpack Spray Application:** Dilute 1 part Pyrenone 25-5 Public Health Insecticide with 10 parts oil or suitable solvent 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).

**AERIAL APPLICATION (FIXED WING AND HELICOPTER):** To control adult mosquitoes and biting flies, apply up to 0.0025 pounds of pyrethrins per acre with equipment designed and operated to produce a ULV spray application.

**TO CONTROL MOSQUITO LARVAE,** dilute at the rate of 9 oz. Pyrenone 25-5 Public Health Insecticide per 50 gals. of oil and apply at the rate of 20 to 25 gals. per acre. Apply as a coarse wetting spray to the border or on shallow water of wet lands, swamps and marshes where mosquito larvae are known to breed.

### 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:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

**CONTAINERS ONE GALLON AND SMALLER:** Do not re-use container. Wrap container in several layers of newspaper and discard in trash.

### IMPORTANT: READ BEFORE USE

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 should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control, it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or Ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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