

PYRENONE®

25-5 M.A.G. Concentrate

EPA Est., 279-NY-1

EPA Reg. No. 279-2918

FOR PROFESSIONAL USE 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 or 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) as well as conventional fogging or spraying equipment.

SPACE AND/OR CONTACT USE AREAS:

- | | | |
|--------------------------|--------------------------|-------------------------|
| Bakeries | Homes | Railroad Cars |
| Beverage Plants | Horse Barns | Restaurants |
| Canneries | Hospitals | Schools |
| Cattle Barns | Hotels | - Stored Food in multi- |
| Dried Food Products | Industrial Installations | wall paper or |
| In storage or processing | Meat Packing Plants | cloth bags |
| Flour Mills | Motels | Supermarkets |
| Food Processing Plants | Office Buildings | Swine Houses |
| Grain Elevators | Zoos | Truck Trailers |
| Granaries | Poultry Houses | Warehouses |

OUTDOOR USE AREAS:

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

Active Ingredients

Pyrethrins	5%
*Piperonyl Butoxide, Technical	25%
Petroleum Oil	70%
	100%

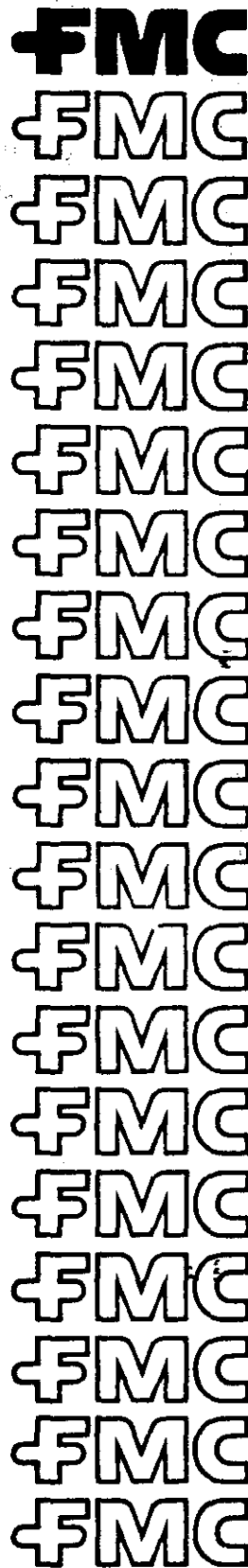
*Equivalent to 20% (butylcarbityl) (6-propylpiperonyl) ether and to 5% related compounds

PYRENONE — FMC Trademark

CAUTION:

KEEP OUT OF REACH OF CHILDREN

See back panel for use and disposal cautions.



FMC Corporation
Agricultural Chemical Division
Middleport New York 14105

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ACCEPTED
NOV 13 1975

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 279-2918

DIRECTIONS FOR USE

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

Angoumois grain moth	Earwigs	Mosquitoes
Ants	Fruit flies	Mushroom flies
Boxelder bugs	Fungus gnats	Red flour beetles
Cadelles	Gnats	Rice weevils
Cheese mites	Grain mites	Saw toothed-grain beetles
Cheese skippers	Granary weevils	Small flying moths
Cigarette beetles	Horn flies	Spider beetles
Clover mites	Hornets	Stable flies
Confused flour beetles	Horse flies	Tobacco moths
Dark mealworms	House flies	Waterbugs
Deer flies	Indian meal moths	Wasps
Dried fruit beetles	Lice	Yellow mealworms
Drugstore beetles	Mediterranean flour moths	

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 before using.

Close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at a rate of 1/2 ounce per 1000 cubic feet 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, (including fruit flies) mosquitoes, small flying moths, gnats, wasps, hornets, clover mites, cheese mites, cheese skippers, boxelder bugs, earwigs, water bugs, 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, 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 one ounce per 1000 cubic feet of space. Repeat application at this dosage in any given month. Leave the room closed for one 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 weevils, saw-toothed grain beetles, yellow mealworms, cheese mites, cheese skippers, cigarette beetles, grain mites, granary weevils, dark mealworms, red flour beetles, waterbugs. 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 fluid ounce per 1000 cubic feet of room space. Repeat applications as necessary for insect control. 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 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. Concentrate plus 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 1-2 fluid ounces per 1000 cubic feet 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, drugstore beetles, earwigs, lice, spider beetles) dilute 1 part of Pyrenone 25-5 M.A.G. Concentrate plus 49 parts of oil (refined kerosene) and mix well and apply as a coarse droplet spray using approximately 1 gallon to 750 square feet of surface. Spray walls, floors, and other surfaces of bins and storage and handling areas thoroughly, being especially 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 base of heavy machinery and equipment. Spray insects directly when possible.

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

To control Indian meal moth and Angoumois meal moth in stored grain, apply to the surface of binned grain at a rate of 1 gallon per 1000 square feet. Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing with rake before spraying and make a second application in two weeks.

As an aid in the control of mosquitoes, gnats, wasps, and skippers: treat walls, ceilings, mouldings, screens, door and window frames, beams, 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. Concentrate plus 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 2 fluid ounces per 1000 cubic feet of space above the animals. Direct spray towards the upper portions of the enclosure, 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.

IN MUSHROOM PRODUCTION AND PROCESSING: To control mushroom flies or fungus gnats in growing houses, dilute 1 part of Pyrenone 25-5 M.A.G. Concentrate plus 49 parts

of oil (refined kerosene) and mix well and apply at a rate of 1 ounce per 1000 cubic feet of space. Fogger should be operated 8 to 10 feet away from beds and directed slightly upward over them. Circulating fans should be left in operation, but for best results, refrigeration should be turned off. In packing and canning plants, use at a rate of 1 ounce to 2000 cubic feet of space.

OUTDOOR GROUND APPLICATION UNDILUTED

To control adult mosquitoes, gnats and small flying moths. For best results, apply when there is a light breeze at approximately 5 miles per hour. Apply from the windward side so the fog will be carried across the area to be treated. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas and ponds may be treated. Application of this product to any body of water is prohibited. Repeat treatment as required.

Using truck-mounted equipment, the objective is to treat the area with .002 to .0025 pounds of pyrethrins and .010 to .0125 pounds of piperonyl butoxide per acre.

PYRENONE 25-5 M.A.G. Concentrate should be applied without further dilution. Dispense fog at the following flow rates depending upon the speed at which the truck is moving:

Truck Speed Miles Per Hour	Flow Rate of PYRENONE 25-5 M.A.G. Concentrate Fluid Ounces Per Minute
5	2 to 2.25 fluid ounces
10	4 to 4.5 fluid ounces

Delivery rate and traveling speeds can be varied slightly so long as the basic objective of .002 to .0025 pounds actual pyrethrins per acre is maintained. Use a swath width of 300 feet for acreage calculations.

To control mosquito larvae, dilute at the rate of 9 ounces per 50 gallons of oil and apply at the rate of 20 to 25 gallons 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.

TEMPORARY REDUCTION OF ANNOYANCE from flies, mosquitoes, and small flying moths outdoors. The aforementioned application for outdoor ground application will afford temporary reduction of annoyance from these pests in public gathering places (drive-in restaurants, drive-in theaters, golf courses, municipalities, parks, playgrounds, and recreational area). 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, feed lots, swine lots, and zoos), cover water, drinking fountains, and animal feed before use. Fill 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, horses, and dogs from horn flies, house flies, mosquitoes, and gnats, dilute 1 part of Pyrenone 25-5 M.A.G. Concentrate plus 49 parts oil (refined kerosene) and 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 ounces 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 the hair. Use 2 ounces or less per animal and repeat every 2 to 3 weeks as required.

ENVIRONMENTAL CAUTIONS

This product is toxic to fish. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply where runoff is likely to occur. 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.

USE CAUTIONS

Harmful if swallowed.
Do not pour or spill near open flame.
Remove pets, birds and cover fish aquaria before spraying.

Do not breathe spray mist. Wear mask or respirator of a type recommended by the U.S. Bureau of Mines to give adequate protection against this material. Wear protective clothing. Wash exposed skin surfaces with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

Do not apply directly to food. Do not apply space spray while food processing is underway. Foods should be removed or covered before treatment. Thoroughly wash all food processing surfaces before reuse. After spraying in meat packing plants, bakeries, and the food processing plants, wash with potable water all equipment, benches, shelving, etc. where exposed food will be handled. In case washing is impractical, do not allow food to come in contact with treated surfaces for at least 48 hours. Food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions and cautions given above.

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

DISPOSAL CAUTIONS:

Do not reuse empty container. Destroy by perforating or crushing and burying in a safe place or return to drum reconitioner.

Terms of sale or use On purchase or use of this product buyer and user agree to the following conditions:

Warranty FMC warrants that this product, as of the time of sale by FMC, (1) conforms to the ingredient statement on the label, and (2) is reasonably fit for the purposes set forth in the Directions for Use. Except as so warranted the product is sold as is. FMC makes no other warranty express or implied.

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. Notice of any claim must be reported to FMC within 10 days of discovery by buyer or user, failing which buyer or user waives any claim for such damage.

Excuse from non-controllable conditions Because of certain critical conditions created or incurred by buyer or user or over which FMC has no control, buyer and user, as a condition of purchase or use, assume responsibility for and release FMC from, liability arising out of the handling or use of the product attributable to such causes. No person is authorized to vary or waive any statement contained herein.