

PYRENONE® CROP SPRAY  
INSECTICIDE

EPA Reg. No. 4816-490

EPA Est. No. 279-NY-1

For use on vegetables and ornamentals (outdoors and in greenhouses) forest, shade, fruit and nut trees, in food processing plants, on stored products, on livestock and for area mosquito control.

Kills numerous crop, stored product and livestock pests, also adult mosquitoes and fruit flies.

Kills Gypsy moth adults and larvae.

ACTIVE INGREDIENTS:

Pyrethrins	6.00%
*Piperonyl Butoxide, Technical	60.00%
Petroleum Distillate	24.00%
INERT INGREDIENTS:	10.00%
	100.00%

\*Equivalent to 48.0% (butylcarbityl) (6-propylpiperonyl) ether and 12.0% related compounds.

PYRENONE - Registered Trademark of Fairfield American Corporation

KEEP OUT OF REACH OF CHILDREN

CAUTION

Harmful if swallowed

See Reverse side for additional precautions

DIRECTIONS FOR USE

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

USED ALONE

Pyrenone® Crop Spray is designed for use alone as a clean-up spray or as a pre-harvest spray where other materials cannot be used due to residue restrictions. When used alone Pyrenone Crop Spray may be used up to and including day of harvest.

Apply 2 to 6 ozs. per acre and repeat as required to maintain effective control.  
Use in sufficient water for thorough coverage (usually 100 gallons for ground equipment and 5-10 gallons for fixed-wing and helicopter applications). Coverage of upper and lower leaf surfaces is essential for good control.

Growing Crops (Outdoors and in Greenhouses):

\*Artichokes, Asparagus, Beans, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Celery, Collards, \*Corn (including sweet corn), \*Cotton, Cranberries, \*Cucumbers, Dill, Eggplants, \*Grapes, Kale, Lettuce, Mustard Greens, Peppers, Potatoes (including sweet potatoes), Radish, Spinach, Tomatoes, Turnips.

To Control:

Aphids, Asparagus Beetle, Blister Beetle, Cabbage Looper, Colorado Potato Beetle, \*Corn Earworm, Cross-striped Cabbageworm, Diamondback Moth Larvae, \*European Corn Borer, \*Fall Armyworm, Fireworm, Flea Beetle, Green Peach Aphid, Harlequin Bug, Imported Cabbageworm, Leafhopper, Leaf Tier, Mexican Bean Beetle, Plume Moth, Sap Beetle, Stink Bug, Tarnished Plant Bug, 12-spotted Cucumber Beetle, Webworm, Whitefly.

Ornamentals (Outdoors, in greenhouses, lath houses, residences, commercial and industrial and indoor landscaping):

African Violets, Asters, Azaleas, Begonias, Camelias, Carnations, Chrysanthemums, Dahlias, Dogwood, Geraniums, Gladioli, Marigolds, Roses, Rubber Plants, Wandering Jews.

To Control:

Aphids, Flea Beetle, Leafhopper, \*Whitefly.

\*Trees

Forest Nut, Shade, Stone Fruit.

\*To Control:

Canker Worms, Eastern and Forest Tent Caterpillars, Gypsy Moth Adults and Larvae, Spruce Bud Worm.

COMBINED WITH OTHER INSECTICIDES

For quicker and more complete kill where insect resistance may be a problem, and as an "exciter" to flush insects out of hiding and into contact with spray residues, Pyrenone Crop Spray may be combined with other insecticides. The application should conform to accepted use precautions and directions for both products. This product may be added to the spray tank at rates of  $\frac{1}{2}$  to 2 fluid ounces with the amount of companion insecticide specified for one acre. Products with which it may be tank mixed include: \*acephate, \*azinphos-methyl, \*Bacillus thuringiensis, carbaryl, \*methomyl, \*naled, \*phosmet or \*trichlorfon.

\*ON FOREST AND SHADE TREES

For quicker and more complete kill of gypsy moth larvae and adults, forest and tent caterpillars, spruce budworms and canker worms, Pyrenone Crop Spray may be combined with acephate, carbaryl or bendiocarb. Add Pyrenone Crop Spray to the spray tank at a rate of  $\frac{1}{2}$  to 2 fluid ounces with the prescribed quantity of the other insecticide.

\*ON STONE FRUIT AND NUT TREES

For quicker and more complete kill of eastern and forest tent caterpillars, spruce budworms and cankerworms, 1 to 2 ounces of this product may be added to the spray tank with the prescribed quantity of malathion or methoxychlor.

USED ALONE

ON HARVESTED TOMATOES AND FRUITS

To control \*vinegar flies and fruit flies dilute at the rate of 1 part Pyrenone Crop Spray with 1200 parts of water (1 pint per 150 gallons or 1 tablespoon with 4 gallons water). Thoroughly mix the emulsion in the spray tank. Make treatments as follows:

1. Apply liberally to tomatoes and fruits in baskets, on trucks or in plants. Use sprayers at a high pressure for applying at the rate of five or six pints of the diluted spray to a two-ton load of tomatoes.

Direct the spray for a maximum coverage of the baskets or hampers. It is important to spray between and beneath the containers. This spray not only kills the flies but the emulsion loosens any dead flies so that they are readily washed from the fruit.

2. Spray the raw stock stacked in the yard.
3. Dip baskets in the diluted spray, after dumping the fruit, to kill adhering larvae and pupae.
4. After washing and cleaning up the inside of the processing plant and prior to bringing fruit into it, the entire space inside the cannary should be sprayed at a dilution of 1 part Pyrenone Crop Spray to 59 parts water (1 pint with 7 gallons 3 pints water or 2 tablespoons with 3 1/4 pints water). At the rate of 1 gallon to 750 square feet (1 quart to 187 square feet), direct spray on walls, ceilings and floors paying special attention to forcing the spray into all cracks and crevices for the control of ants, cockroaches, silverfish, crickets and spiders.

For use as a SPACE SPRAY in the processing plants, this dilution will give excellent control of flying insects, fruit flies, house flies, hornets, wasps, gnats and mosquitoes. Apply at the rate of 1/2 ounce per 1000 cubic feet of space. Do not spray while the plant is in operation as dead flies may fall into containers or the product being processed.

#### SPACE SPRAY INDOORS

In food processing plants, industrial installations and warehouses, the dilution of 1 to 59 at 1/2 ounce per 1000 cubic feet will give excellent control of flies, fruit flies, mosquitoes, gnats, wasps, hornets and \*small flying moths. Direct the spray upward and whenever practical, keep doors and windows closed for at least 10 minutes after application. This use of the product in food processing or food handling establishments should be confined to time periods when the plants or facilities are not in operation. Foods should be removed or covered during treatment or thoroughly cleaned before using.

Where oil residues are not undesirable, Pyrenone Crop Spray can be diluted in deodorized base oil instead of water at the dilution rate of 1-59 and applied by means of any good type applicator.

#### STORED PRODUCT PROTECTION

Pyrenone Crop Spray can be safely used on wheat, oats, corn, barley, rye and \*peanuts held in storage for control of the accessible stages of rice weevils, granary weevils, confused flour beetle, sawtoothed grain beetles, flat grain beetles, rusty grain beetles, square necked grain beetles, red flour beetles, cadelle beetles, Angoumois grain moths, \*Indian meal moths and \*almond moths.

#### WAREHOUSE BINS AND TRUCKS, CARGO SHIPS AND PLANES

Clean up Storage Sites: The bins, cribs or other types of storage should be thoroughly cleaned by sweeping out the waste grain, cobwebs and other debris on the walls and rafters as well as on the floor and about the door frames, paying special attention to the material lodged in the cracks and crevices. These accumulations should be removed and burned to kill eggs and insects that might be present.

In mills and elevators, particular attention should be given to the bin hoppers to remove all grain infested accumulations. Conveying equipment should also be made clean and free of trash deposits that could maintain an infestation. For farms, specific attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting

equipment and feed troughs. Newly harvested grain should not be placed in the same bin with carry-over grain and all carry-over stocks not treated with grain protectant should be fumigated. These cleaning operations should be done within two to three weeks before harvest.

**Spraying of Bins:** Spray grain bins and other storage areas prior to using them for storage. For this purpose, dilute 1 part of Pyrenone Crop Spray with 50 parts of water (1 pint with 7 gallons 3 pints of water). Apply at the rate of one gallon per 750 square feet as a residual type of insecticide on walls, floors, ceilings and partition boards of bins, paying particular attention to forcing the spray into all cracks and crevices.

**\*ON PEANUTS IN BULK OR IN BAGS**

Dilute at the rate of 1-1/3 fluid ounces of this product per gallon of water and apply as a coarse wet spray over the top of stored peanuts or the outside surface of stacked bagged peanuts. Apply when the bin is filled and at weekly intervals for about 6 weeks and then at 15-day intervals. The first two applications should be at a rate of 4 gallons per 1000 square feet and at 1/2 that rate thereafter.

**AS A GRAIN PROTECTANT**

Pyrenone Crop Spray is an emulsifiable concentrate that, when diluted with water and sprayed directly on grains, will effectively protect them against grain storage insects for a full season or approximately 8 months. This product is not intended for use on heavily infested grain.

**Treatment of Grain with Pyrenone Crop Spray:** Dilute at the rate of 1 part Pyrenone Crop Spray with 29 parts water (1 pint with 3 gallons 5 pints water). Thoroughly mix the emulsion. A diluted spray emulsion is required. Apply at an even rate on the grain as it is carried along a belt or as it enters the elevator or auger. The diluted spray should be applied directly to the stream of grain with the protectant. Apply at the rate of 4 to 5 gallons per 1000 bushels of grain as it is carried along a belt or as it enters the auger or elevator.

Monthly inspections of the grain should be made. If the top two or three inches of grain are found to be infested, re-treat by diluting 1 part Pyrenone Crop Spray with 29 parts water (1 pint with 3 gallons 5 pints water) and applying at the rate of 1 to 2 gallons of diluted material per 1000 bushels of grain.

**LIVESTOCK SPRAY**

To control horn flies, house flies, mosquitoes and gnats, dilute at the rate of 1/2 to 1 fluid ounce per gallon of water and apply to wet the hair thoroughly, with particular attention to topline, underline, flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.

To control stable flies, horse flies and deer flies, dilute at the rate of 2 fluid ounces per gallon of water and apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment each week as needed.

To control face flies, dilute at the rate of 2 fluid ounces per gallon of water and apply using spray which produces large wetting droplets. Apply to the face of the animal in the morning before releasing to pasture. Apply sufficiently to wet the face but not more than 1 1/2 ounces per animal. Repeat daily as needed.

For effective control of biting and sucking lice on cattle, horses, sheep, goats and hogs, dilute at the rate of 1 quart with 150 gallons of water (1 : 150) and spray to thoroughly wet the hair of the animal including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.

To control poultry lice, using a dilution of 2 fluid ounces of concentrate per gallon of water spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist.

For control of bedbugs and mites in poultry houses, dilute at the rate of 2 fluid ounces per gallon of water and spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

To control sheep "tick" or ked, dilute at the rate of 1 fluid ounce per 4 gallons of water and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.

To kill fleas on livestock and pets, and to obtain protection against reinfestation, dilute at the rate of 1½ fluid ounces per gallon water and wet the animal by dipping or spraying. For best results against fleas and ticks on dogs, the kennels or animal quarters and bedding should also be treated.

IN BARNS, MILKING PARLORS, MILK ROOMS, DAIRIES, AND POULTRY HOUSES: To control flies, mosquitoes and gnats, dilute at the rate of 2 fluid ounces per gallon of water and apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying. Repeat applications as necessary.

#### MOSQUITO CONTROL

May be used on croplands as an adulticide to protect agricultural workers during harvesting. Use at 1 oz. per 4 gallons water per acre when applied by aircraft.

#### STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or dispose of in a sanitary landfill, or by other approved State and local procedures.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

##### CAUTION

Do not get in eyes. Wear goggles, face shield or safety glasses when handling or pouring. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

Harmful if swallowed. When using in an enclosed area, do not remain in treated area. Ventilate the area after treatment is completed. Foods should be removed or covered during treatment, or thoroughly cleaned before using. When using the product in these areas, apply only when the facility is not in operation.

Do not apply as a space spray when food processing is underway. Foods should be removed or covered during treatments. Thoroughly wash and rinse with potable water, food processing surfaces before reuse.

#### STATEMENT OF PRACTICAL TREATMENT

If Swallowed - Do not induce vomiting unless directed by a physician.  
Contains petroleum solvent. Call a physician at once.

If Inhaled - Remove victim to fresh air. Apply respiration if indicated.

If on skin - Remove contaminated clothing and wash affected area with soap and water.

If in Eyes - Flush eyes with plenty of water. Call a physician if irritation persists.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to water.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not use in undiluted form.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

\*These crop/insect/tank mix claims not registered in California.

Fairfield American Corporation  
8th and Harrison Streets  
Frenchtown, NJ 08825

Attention: Mr. Lawrence Feller

Gentlemen:

Subject: Pyrenone Crop Spray  
EPA Registration No. 4310-450  
Your Letters of January 12 and February 16, 1983

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(7)(A) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(c). 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,

*ASPB*  
Franklin E. Lee  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (15-767)

Enclosure

IRB/ED: SCHROEDER/GLE: DOK-23741: WAKO-28510: pjb: Kaven: 479-2013: 3/4/83

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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