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# PYRETHRIN

## ALL-PURPOSE INSECTICIDE

**ACCEPTED**  
03 MAR 1992  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under  
EPA Reg. No. 63823-2

CONCENTRATED POWER, FAST KNOCK-  
DOWN AND KILL. ALL-PURPOSE SPRAY.  
SAVES FROM BUYING A LOT OF SINGLE  
PURPOSE INSECTICIDES.

For use in Homes, Food Processing/ handling  
establishments, Warehouse, Storage Rooms,  
Flour Mills, Grain Elevators, Granaries, ON  
Pets, Livestock, Animal Quarters, Mushroom  
House, Federally Inspected Meat and Poultry  
Plants, Drive-In Restaurants, Drive-In  
Theatres, Golf Courses, Municipalities, Parks,  
Playgrounds, Recreational Area, Corrals,  
Feed Lots, Swine Lots, Zoos, Outdoors,  
Crops.

**ACTIVE INGREDIENTS:**

Pyrethrins.....2.5%  
Piperonyl Butoxide, technical\* ..15.0%

**INERT INGREDIENTS:.....82.5%**

(Contains petroleum distillates) 100.0%

\*Equivalent to 12.0% (butylcarbityl)  
(6-propylpiperonyl) ether and 3.0% related  
compounds.

KEEP OUT OF REACH OF CHILDREN

### CAUTION

Harmful If Swallowed.

See side panel for additional  
precautionary statements.

NET CONTENTS

GALLONS

EPA Reg. No. 63823-2

EPA Est. No.

Manufactured by:

RFM  
3/3/92

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.

Application using fixed wing aircraft: Use 12 to 25 ounces of concentrate in 4 gallons of water per acre.

#### MUSHROOM PRODUCTION AND PROCESSING

To control MUSHROOM FLIES or FUNGUS GNATS in growing houses, dilute one part of concentrate plus 98 parts Methylene Chloride and mix well and apply at a rate of 1 ounce per 1,000 cubic feet of space. Fogger should be operated 8 to 10 feet away from beds and should be directed slightly upward over them. Circulating fans should be left in operation, but for best results, refrigeration should be turned off in packaging and canning plants, use at a rate of 1/2 ounce per 1,000 cubic feet of space.

**FOR USE ON LIVESTOCK:** To control HORN FLIES, MOSQUITOES, AND GNATS: Dilute 1 part concentrate to 18 parts water and apply to wet the hair thoroughly with particular attention to the 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 1 part concentrate and 4 1/2 parts water and apply one quart per adult animal to wet hair thoroughly with particular attention to the legs, flanks, barrel, topline, and other body area commonly attacked by these flies. Repeat treatment each week or as needed.

To control FACE FLIES: Dilute one part concentrate and 4 1/2 parts water. Use a 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.

For effective control of MOTILE STAGES OF (BITING) YELLOW LICE and (sucking) BLUE LICE on cattle, horses, sheep, goats and hogs: Dilute this concentrate at a rate of 1 part in 50 parts of water. Spray to thoroughly wet 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 1 to 50 in water, dip birds by submerging in a barrel, tank or tub of the solution holding the wings away from the body to insure thorough wetting of all infested areas. In order to avoid chilling the fowls, dip them on a warm day or in a warm building.

For control of BEDBUGS and MITES in poultry houses: Dilute 1 part of concentrate and 4 1/2 parts of water and spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbug and mites hide.

to control SHEEP "TICK" or KED: Dilute at the rate of 1 part of concentrate to 50 parts 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 control SPINNOSE EAR TICK: Dilute at the rate of 1 part

concentrate and 12 parts of water and apply by individual treatment, syringe or pouring 1 to 2 ounces into each ear of large animals or a few drops into ears of dogs.

in barns, milking parlors, milkrooms and dairies: To control FLIES, MOSQUITOES and GNATS: Dilute at the rate of 1 part of concentrate and 4 1/2 parts of water or oil and apply as a fog or fine mist, directing spray toward the ceiling and upper corners until the area is filled with mist using about 2 ounces per 1,000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the area and ventilate before reoccupying. Repeat application as necessary.

#### 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 concentrate plus 98 parts oil (refined kerosene) and mix well. Apply at the rate of 2 fluid ounces per 1,000 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 areas and ventilate before reoccupying. Repeat treatment when reinfestation occurs.

May be used as edible crops (outdoors or in greenhouses) up to and including day of harvest. Especially desirable as a clean-up or pre-harvest spray where other materials may not be used due to residue restrictions. When applied according to accepted use cautions and directions this concentrate may be used in combination with other insecticides where resistant insects are a problem, or as an "exciter", to flush insects out of hiding and into contact with spray residues.

On the following crops to control named insects, use 2-72 ounces per acre in sufficient water to allow thorough coverage (usually 100 gallons). Coverage of upper and lower leaf surfaces is essential for good control.

CROPS	INSECT	ORNAMENTALS
Asparagus.....	Asparagus Beetle	African Violets
Beans.....	Aphids, Leafhoppers, White Fly, Mexican Bean Beetle, 12-Spotted Cucumber Beetle	Asters
Broccoli.....	Aphids, Cabbage Looper, Cross-Striped Cabbage Worm,	Azaleas
Cabbage.....	Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbage Worm	Begonias
Brussels Sprouts	Stink Bug	Carnations
Cauliflower.....	Green Peach Aphids, Cabbage Looper, Leaf Tier	Chrysanthemums
Celery.....	Fireworms, Leafhopper	Dahlias
Cranberries.....	Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid	Dogwood
Eggplants.....	Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm	Geraniums
Lettuce.....	Imported Cabbageworm, Diamondback Caterpillar, Aphids,	Gladioli
Mustard Greens	Cabbage Looper	Mangolds
Kale.....	Green Peach Aphid	Roses
Collards.....	Aphids, Colorado Potato Beetle, Flea Beetle, Leaf Hopper	Rubber Plants
Turnips.....	Aphids, Flea Beetle	
Peppers.....	Aphids, Cabbage Looper, Webworm Green Peach Aphid	
Potatoes.....	Colorado Potato Beetle, Stink Bug, Flea Beetle	
Radish.....		
Spinach.....		
Tomatoes.....		

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**DRIED FRUIT PRODUCTS:** In storage or being processed for control of **CONFUSED FLOUR BEETLES, DRIED FRUIT BEETLES, INDIAN MEAL MOTHS, AND SAWTOOTHED 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 ¼ ounce per 1,000 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 the area before re-entry. Sweep up and destroy fallen insects.

**WAREHOUSE, STORAGE ROOM, FLOUR MILLS, GRAIN ELEVATORS, GRANARIES**

**STORED FOOD:** (Stored in multi-wall bags or cloth bags) in warehouses, storage rooms, flour mills, grain elevators, granaries for control of **ANGOUIMOIS 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:** 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 ¼ fluid ounce per 1,000 cubic feet of space. 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. Sweep up and destroy fallen insects.

**SURFACE SPRAY:** For initial clean up of severe infestations, dilute at a rate of 1 part concentrate and 2 parts water or oil. For use in edible product areas of **federally inspected meat and poultry plants** and for normal infestations, dilute 1 part concentrate and 5 parts water or oil. To control **ROACHES, ANTS, SILVERFISH, SPIDERS, CRICKETS, CLOVERMITES, CHEESEMITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, SAW-TOOTHED GRAIN BEETLES, SPIDER BEETLES, CIGARETTE BEETLES, DRUGSTORE BEETLES, MEAL WORMS, GRAIN MITES, SCORPIONS, BOX ELDER BUGS, SPIDERS, and CADELLES:** Use a good sprayer adjusted to deliver a coarse, wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers or stored foods, around the bases of machinery, behind shelves, and drawers. for **SILVERFISH:** Spray bookcases. For **ANTS:** Spray trails, nests and points of entry. If surface application only is to be used, spray floors, walls and other surfaces applying at a rate of 1 gallon to 750 square feet of surface.

To control **CARPET BEETLES:** Spray edges of carpeting and under carpeting and rugs. Make localized applications to floor and baseboards. Spray directly into cracks, closets and infested areas of shelving. Repeat treatment as necessary.

To control **FLEAS and BROWN DOG TICKS:** Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices along and behind baseboards, mouldings, window and door frames and localized areas of floor coverings. Fresh bedding should be placed in animal quarters following treatment. Concurrent treatment of animals with an approved insecticide is recommended. Repeat as necessary.

To control **CARPET BEETLES:** Spray edges of carpeting and under carpeting and rugs. Make localized applications to floor and baseboards. Spray directly into cracks, closets and infested areas of shelving. Repeat treatment as necessary.

To control **BEDBUGS:** Spray mattresses lightly, particularly around tuft and seams. Take bed apart and spray all joints. Treat baseboards, mouldings and floors. Repeat treatment as needed.

to control **FLEAS and BROWN DOG TICKS:** Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices along and behind baseboards, mouldings, window and door frames and localized areas of floor coverings. Fresh bedding should be placed in animal quarters following treatment. Concurrent treatment of animals with an approved insecticide is recommended. Repeat as necessary.

**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 system equipment. Dilute 1 part concentrate plus 98 parts oil (refined kerosene) and mix well. Apply at the rate of 1 to 2 fluid ounces per 1,000 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.

**U.L.V. APPLICATION:** For rapid kill of exposed or accessible stages of the insects named on this label, dilute 2 parts concentrate to 1 to 9 parts water or oil. Apply using conventional mechanical or compressed air equipment (non-thermal) following directions for space spraying. Apply the above dilutions at a rate of from 1 to 10 ounces per 1,000 cubic feet of space. When used in meat and poultry plants, a dilution of no less than 1 to 1 (50%) is acceptable, and it must be dispersed from equipment adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns).

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

to control **ADULT MOSQUITOES, GNATS and SMALL FLYING MOTHS.** For best results apply when there is a light breeze of approximately 5 mph and temperature is cool (75° or less). With a ULV spraying device spray at a dosage rate of 2 ½ ounces per minute up-wind of the area to be controlled. If the equipment is truck mounted, keep the speed to approximately 5 mph with a swath width of no more than 300 feet.

**OUTDOOR GROUND APPLICATION, UNDILUTED**

To control **MOSQUITO LARVAE:** Dilute in oil at a rate of 1 part concentrate to 75 parts oil (10 parts in 50 gallons) and apply at a rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray uniformly over wet lands, swamps, marshes or bodies of water where larvae may breed. Do not exceed this dosage or fish kill may result.

**OUTDOORS**

**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 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

**PRECAUTIONARY STATEMENT /  
HAZARD TO HUMANS AND  
DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists.

Do not apply directly to food. In commercial food handling facilities, cover or remove any food and food processing equipment during application. Do not apply while food processing is underway. After space spraying in meat packing plants, bakeries and other food processing plants, wash all equipment, benches, shelving, etc., where exposed food will be handled, with potable water. In the home, all food processing surfaces and utensils should be covered during treatment, or thoroughly washed before use.

Remove pets, birds and cover fish aquariums before spraying.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not store near heat or open flame.

**ENVIRONMENTAL HAZARDS**

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

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

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

Pesticide Disposal: Pesticide, spray mixture or rinseate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal: Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill or bury in a safe place.

General: Consult Federal, State or Local disposal authorities for approved alternative procedures.

**FOR CONTROL OF THE FOLLOWING INSECTS**

Ants  
Angoumois Grain Moths  
Asparagus Beetle  
Aphids  
Boxelder Bugs  
Bedbugs  
Brown Dog Ticks  
Blister Beetle  
Cheese Skippers  
Clover Mites  
Confused Flour Beetle  
Crickets  
Cigarette Beetles  
Cabbage Looper  
Caddisflies

Indian Meal Moth  
Imported Cabbageworm  
Ked  
Lice  
Leafhoppers  
Leaf Tier  
Mosquitoes  
Moths  
Mexican Bean Beetle  
Mediterranean Flour Moth  
Mushroom LFlies  
Poultry Lice  
Rice Weevils  
Red Flour Beetles  
Roaches

Carpet Beetles  
Cheese Mites  
Cucumber Beetle  
Cabbage Worm  
Colorado Potato Beetle  
Drugstore Beetles  
Dark Mealworms  
Dried Fruit Beetle  
Deer Flies  
Diamondback Moth Larvae  
Earwings  
Flies  
Face Flies  
Fruit Flies  
Flea Beetle  
Fungus Gnats  
Fleas  
Fireworms  
Gnats  
Grain Moths  
Green Peach Aphids  
Granary Weevil  
Grain Mites

Saw-Toothed Grain Beetle  
Small Flying Moths  
Spider Beetle  
Stink Bug  
Stable Flies  
Silverfish  
Spiders  
Spinose Ear Tick  
Scorpions  
Tobacco Moths  
Ticks  
Wasps  
Waterbugs  
White Fly  
Webworm  
Yellow Mealworms

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**FOOD PROCESSING/FOOD HANDLING ESTABLISHMENTS**

**INDOOR USE AS A SPACE SPRAY UNDILUTED:** The use of this 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. All food processing surfaces should be covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before reuse.

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 1/4 ounce per 1,000 cubic feet of space. Direct the spray toward the ceiling and upper corners of the area behind obstructions. Keep the area closed for at least 15 minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary. Sweep up and destroy fallen insects.

This method of application will control exposed, accessible stages of 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 WEEVIL, CONFUSED FLOUR BEETLES, SAW-TOOTHED GRAIN BEETLES, SPIDER BEETLES, CIGARETTE BEETLES, DRUGSTORE BEETLES, ANGOUMOIS GRAIN MOTHS, MEDITERRANEAN FLOUR MITES, INDIAN MEAL MOTHS, TOBACCO MOTHS, YELLOW MEALWORMS, DARK MEALWORMS, GRAIN MITES, CADELLES and RED FLOUR BEETLES.