



# PYRETHRIN Concentrate

## A Botanical Insecticide

For use only on home vegetable gardens. Not for use on plants being grown for sale or other commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

### ACTIVE INGREDIENTS:

Pyrethrins.....	0.96%
Piperonyl Butoxide*.....	9.60%
OTHER INGREDIENTS**.....	89.44%
Total .....	100.00%

\*(Butylcarbityl)(6-propylpiperonyl) ether and related compounds.

\*\*Contains Petroleum Distillates

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION: Contains Petroleum Distillate.** Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Personal Protective Equipment (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- long -sleeved shirt and long pants,
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber or viton, shoes and socks

In addition to the above PPE, applicators using a high pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any R,P, or HE filter.

In addition to the above PPE, applicators using hand held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- a dust/mist filtering cartridge with MSHA/NIOSH approval number prefix TC-21C or
- a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- a cartridge or canister with any R, P, or HE filter.

#### User Safety Requirements:

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash

(User Safety Requirements continued)

PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product’s concentrate. Do not reuse them.

**User Safety Recommendations:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### FIRST AID

**IF ON SKIN or CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center, or doctor for treatment advice.

**IF SWALLOWED:** Immediately call a Poison Control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), you may call the National Pesticide Information Center at 1-800-858-7378, seven days a week, 9:30 am to 7:30 p.m. EST.

**NOTE TO PHYSICIAN:** Contains petroleum distillate - vomiting may cause aspiration pneumonia

### Environmental Hazards

**For Terrestrial Applications:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the Directions for Use, 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 contaminate water when disposing of equipment wash-water or rinsate.

### DIRECTIONS FOR USE

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

#### USE RESTRICTIONS:

- \* Remove or cover exposed food and drinking water before application.
- \* Remove or cover dishes, utensils, food processing equipment and food preparation surfaces or wash them before use.
- \* Remove pets and birds and cover fish aquariums before spraying.
- \* When used in food handling and processing facilities: Do not make space spray applications while facility is in operation. Prior to space spray applications, cover or remove food and cover food processing surfaces or clean after treatment and before use.
- \* Use on vegetables & ornamentals: For use only on home vegetable gardens. Not for use on plants being grown for sale or other commercial seed production or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks or on golf courses or lawns and grounds.
- \* Do not apply directly into sewers or drains or to any area like a gutter where drainage to storm sewers, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- \* Except when applying to animals (pets/livestock) do not enter or allow others to enter until sprays have dried and vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- \* Except when applying to animals (pets/livestock) do not apply this product in way that will contact workers or other persons, either directly or through drift.
- \* Except when applying to animals (pets/livestock) only protected handlers may be in the area during application.
- \* After space spraying, do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.
- \* When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- \* Do not make applications during rain.
- \* Do not wet plants to the point of runoff or drip.
- \* Do not wet articles to the point of runoff. Do not use treated article until spray has dried.
- \* For pet use: Do not apply to dogs less than 12 weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. **DO NOT USE ON CATS.**
- \* For use on animals: Do not apply more than 1 time per day.
- \* Not for use in outdoor residential mosquito misting systems.
- \* Do not use in aircraft cabins.

When diluting with water, prepare only the amount needed for immediate use. Holding a water dilution more than 24 hours is not recommended. Agitate occasionally. For oil dilutions, deodorized petroleum oil is recommended. A combination of localized surface applications and space treatment are recommended for maximum effectiveness.

**AS A SURFACE SPRAY:** For initial clean up of severe insect infestations, dilute at a rate of 1 part concentrate and 4 parts water or oil. For normal infestations, dilute 1 part concentrate and 9 parts water or oil. To kill **ROACHES, ANTS, SILVER-**

**FISH, SPIDERS, CRICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, SAW-TOOTHED GRAIN BEETLES, SPIDER BEETLES, CIGARETTE BEETLES, DRUGSTORE BEETLES, MEALWORMS, GRAIN MITES, SCORPIONS, BOXELDER BUGS 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 of 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 kill **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.

To kill **BED BUGS**: Thoroughly inspect area of suspected bed bug infestation and note potential harborage sites or actual infestations. Remove and/or pick up clothing and other obstacles that may prevent thorough inspection or treatment. Remove and sanitize infested bedding (pillows and linens), clothing or other items.

Apply to the mattresses as a spot treatment to mattress seams, edges and tufts of bed only. Do not use directly on pillows, bed linens or clothes. Do not saturate the mattress; and do not treat entire surface area of mattress. Allow mattress to dry thoroughly before replacing pillows and/or bed linens.

Bed bugs may also harbor in areas of the room away from the bed. Apply as a crack and crevice or spot application where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty drawers and clothes closets, night stands and other furniture in the room, carpet edges, high and low wall moldings (such as floor molding or window casings), wall voids, behind wall hangings and mirrors, wallpaper edges and popcorn ceilings. Remove all clothes and other articles from dressers or closets before application. Take bed apart. Treat joints and channels if hollow, such as square or round tubing and see that interior framework is treated. Apply as a surface application to carpeting, drapes and flooring. Allow all treated areas to dry thoroughly before use.

If evidence of bed bugs persists, treat mattress with a product approved for this use that contains a different active ingredient(s) and/or use an alternate method of control.

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

**AS A SPACE SPRAY**: Dilute at a rate of 1 part concentrate to 19 parts of water or oil. Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems.

To kill **FLIES, FRUIT FLIES, GNATS, MOSQUITOES, SKIPPER FLIES, WASPS, HORNETS, ANGOUMOIS GRAIN MOTHS, MEDITERRANEAN FLOUR MOTHS, INDIAN MEAL MOTHS, SMALL FLYING MOTHS AND TOBACCO MOTHS**: Spray direct at an upward angle distributing it uniformly through the entire area at a rate of 1 fluid ounce per 1,000 cubic feet of space. Keep area closed for at least 10 minutes. Sweep up and destroy dead and fallen insects.

**U.L.V. APPLICATION**: To kill exposed or accessible stages of the insects named on this label, dilute 1 part concentrate 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 from 1 to 10 fluid ounces per 1,000 cubic feet of space. When used in meat and poultry processing plants, a dilution of no less than 1 to 1 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).

**FOR USE ON LIVESTOCK**: To kill **HORN FLIES, HOUSE FLIES, MOSQUITOES AND GNATS**: Dilute 1 part concentrate and 39 parts water and apply to wet the hair thoroughly with particular attention to the top-line, underline, flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or daily as needed when flies are emerging in large numbers.

To kill **STABLE FLIES, HORSE FLIES AND DEER FLIES**: Dilute 1 part concentrate and 9 parts of water and apply one quart per adult animal to wet hair thoroughly with particular attention to the legs, flanks, barrel, top-line and other body areas commonly attacked by these flies. Repeat treatment each week as needed.

To kill **FACE FLIES**: Dilute 1 part concentrate and 9 parts water. Use 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 ½ fluid ounces per animal.

To kill **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 100 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 kill **POULTRY LICE**: Using a dilution of 1 to 100 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.

To kill **BED BUGS AND MITES** in poultry houses: Dilute 1 part of concentrate and 9 parts of water and spray crevices of roost poles, cracks in walls, cracks in nests where the bed bugs and mites hide.

To kill **SHEEP "TICK" OR KED**: Dilute at the rate of 1 part concentrate to 100 parts 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 to obtain protection against re-infestation: Dilute at a rate of 1 part concentrate and 9 parts water and wet the animal by dipping or spraying.

To control **SPINOSE EAR TICK**: Dilute at the rate of 1 part concentrate and 24 parts of water and apply by individual treatment, syringing or pouring 1 to 2 fluid ounces into each ear of large animals.

**In barns, milking parlors, milk rooms and dairies:** To kill **FLIES, MOSQUITOES AND GNATS**: Dilute at the rate of 1 part of concentrate and 9 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 fluid 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.

## PETS

**READ ENTIRE LABEL BEFORE EACH USE. USE ONLY ON DOGS (OVER 12 WEEKS OF AGE) TO KILL FLEAS, BROWN DOG TICKS, LICE AND SPINOSE EAR TICKS:**

To kill **FLEAS, BROWN DOG TICKS, AND LICE ON DOGS** and to obtain protection against re-infestation: Dilute at a rate of 1 part concentrate and 9 parts water and wet the animal by dipping or spraying. To kill **SPINOSE EAR TICK**: Dilute at the rate of 1 part concentrate and 24 parts of water and apply by individual treatment, syringing or pouring a few drops into the ears of dogs. For best results against fleas and ticks on dogs, the kennels or animal quarters and bedding should also be treated. Do not reapply product for 14 days.

**FOR OUTDOOR USE ON VEGETABLES & ORNAMENTALS:** All outdoor uses must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: (1) Treatment of soil or vegetation around structures; (2) Applications to lawns, turf and other vegetation; and (3) Applications to building foundations up to a maximum height of 3 feet. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves), are limited to spot treatment and crack-and-crevice treatments only.

May be used on vegetables and ornamentals (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, to flush insect out of hiding and into contact with spray residues.

On the following vegetables and ornamentals to kill the listed insects, use 1.2 to 3.6 fluid ounces in 10 gallons of water to allow thorough coverage. Coverage of upper and lower leaf surfaces is essential for best results.

**ASPARAGUS:** Asparagus Beetle, **BEANS:** Aphids, Leafhoppers, whiteflies, Mexican Bean Beetle, 12-spotted Cucumber Beetle. **BROCCOLI, CABBAGE, BRUSSELS SPROUTS, CAULIFLOWER:** Aphids, Cabbage Looper, Cross-Striped Cabbage Worm, Diamondback Moth Larvae, Flea Beetle, Harlequin bug, Imported Cabbageworm, Stink bug. **CELERY:** Green Peach Aphids, Cabbage Looper, Leaf Tier. **CRANBERRIES:** Fireworms, Leafhopper. **EGGPLANTS:** Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid. **LETTUCE:** Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm. **MUSTARD GREENS, KALE, COLLARDS, TURNIPS:** Imported Cabbageworm, Diamondback Caterpillar, Aphids, Cabbage Looper. **PEPPERS:** Green Peach Aphid. **POTATOES:** Aphids, Colorado Potato beetle, Flea Beetle, Leafhopper. **RADISH:** Aphids, Flea Beetle. **SPINACH:** Aphids, Cabbage Looper, Webworm. **TOMATOES:** Green Peach Aphid, Colorado Potato Beetle, Stink Bug, Flea Beetle.

### ORNAMENTALS:

(AFRICAN VIOLETS, ASTERS, AZALEAS, BEGONIAS, CAMELLIAS, CARNATIONS, CHRYSANTHEMUMS, DAHLIAS, DOGWOOD, GERANIUMS, GLADIOLI, MARIGOLDS, ROSES, RUBBER PLANTS, WANDERING JEW, ETC), Aphids, Flea Beetles, Leafhoppers.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store this product in a cool, dry (preferably locked) place away from heat or open flame and in an area that is inaccessible to children and animals.

**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:** Non-refillable container. Do not reuse or refill this container. Clean container 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  $\frac{1}{4}$  full with water (or solvent used to dilute product) 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. Offer for recycling, if available or reconditioning, if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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