

Not Reviewed. Registrant claims to be in accordance with Reregistration of Pesticide Product Guidance for Phase 2 Response, Page 2.12, Active to Inert Change in Status.

PROPOSED LABEL COPY

Product Name: Insecticide Spray Concentrate II	Label Dimensions
Formulation/ Product Number:	Height:
Authored by:	Width:
Reviewed by:	Paper Type:
	Paper Weight:

INSECTICIDE SPRAY CONCENTRATE II

For use by trained personnel only.  
A HIGHLY VERSATILE INSECTICIDE CONCENTRATE

For use in Bakeries, Bottling Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Hospitals, Hotels, Poultry Houses, Restaurants, and Outdoors for Mosquito Control and on Growing Crops.

PROVIDES RAPID KILL OF INSECTS WITHOUT OBJECTIONABLE RESIDUES.

May be Applied as a Wet Spray in Food Plants while in Operation.

ACTIVE INGREDIENTS:

Pyrethrins.....	6.0%
*Piperonyl Butoxide, Technical.....	60.0%
INERT INGREDIENTS.....	34.0%
	<u>100.0%</u>

\*Equivalent to 48% (butylcarbityl)(6-propylpiperonyl) ether and to 12% related compounds.

KEEP OUT OF REACH OF CHILDREN  
CAUTION  
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.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

This concentrate is designed to be diluted with water or oil before use. The resulting spray solution should be applied using good mechanical or compressed air fogging equipment.

The insecticidal components of this concentrate, pyrethrins and piperonyl butoxide, are classified as food additives, and when used as directed allowable tolerance levels will not be exceeded.

NET CONTENTS:

EPA Reg. No. 34797-61

Manufactured by:  
Qualis Inc.  
Des Moines, Iowa 50321

EPA Est. No. 34797-1A-03

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**INDOOR APPLICATION:** Remove pets, birds, and cover fish aquarium before spraying. To control exposed stages of flies, including fruitflies, mosquitoes, gnats, and small flying moths, dilute 1 part concentrate in 119 parts water or oil (1.1 ounces per gallon or 3 quarts 10 ounces per 100). Close doors and windows and shut off ventilating systems. Apply as a fog or fine mist directing the spray toward the upper portions of the room and toward windows and other light sources which attract these insects. Thoroughly fill the area with mist using 1 to 2 ounces per 1000 cubic feet. Keep area closed for 10 minutes or more. Vacate after treatment and ventilate before reoccupying. Repeat treatment as needed.

For initial clean out of infestations of cockroaches, ants, spiders, silverfish, crickets, boxelder bugs, scorpions, and clover mites: dilute 1 part concentrate in 29 parts water or oil (4.3 fluid ounces per gallon). Apply as a coarse droplet surface spray using approximately 1 gallon to 750 square feet. Spray thoroughly all surfaces where these insects are usually found including walls, baseboards, moldings, doors, cabinets, shelves, sinks and pipes, with special attention to cracks and crevices, niches, dark corners, drains and similar hiding places. Treat ant trails, nests and runs. When possible, spray insects directly.

Repeat treatment using a dilution of 1 plus 59 (2.1 fluid ounces per gallon) at the same rate of application after an interval of one month or when reinfestation occurs.

**IN MILLS, ELEVATORS AND GRANARIES:** For rapid initial kill of exposed or accessible stages of granary weevil, rice weevil, confused flour beetle, rust red flour beetle, cadelle, saw-toothed grain beetle, spider beetle, cheese mites and grain mites: dilute at a rate of 1 part concentrate to 59 parts water or oil (2.1 fluid ounces per gallon). Clean out any waste grain, dust, dirt or debris and destroy before spraying. Apply as a coarse droplet spray using approximately 1 gallon to 750 square feet of surface.

Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this use.

In mills, elevators, and granaries, thoroughly spray floors, walls and other surfaces of bins, storage and handling areas with particular attention to cracks, crevices, and similar protection locations. Treat unloading, handling and processing areas, and apply the insecticide to conveying, processing and handling equipment, such as the inside of reel conveyors, purifier conveyors, sifters, roll housings and hoppers, pick up conveyors, etc. Spray thoroughly around the base of heavy machinery and equipment.

Thoroughly treat walls, floors, shelves and other exposed surfaces, and lightly spray each layer of cartons or containers as stacked.

Sack surfaces of bagged grain can be sprayed lightly until slightly moist.

For protection in transit, treat truck beds, box cars, and ships' holds before loading. Using a dilution of 1 part concentrate in 59 parts water (2.1 fluid ounces per gallon), apply at a rate of 1 gallon to 750 square feet of surface with particular attention to cracks, crevices, and similar hiding places.

To control exposed accessible stages of Indian meal moth and Angoumois grain moth in stored grain: dilute 1 part of concentrate in 29 parts of water (4.3 fluid ounces per gallon) and apply to the surface of the binned grain at a rate of 2 gallons per 1000 square feet (1.6 pints per 100 square feet). Apply at monthly intervals beginning 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.

**ON LIVESTOCK:**

To control horn flies, house flies, mosquitoes and gnats, dilute at the rate of one part concentrate to 239 parts water (0.5 fluid ounces per gallon) 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 one part concentrate to 59 parts water (2.1 fluid ounces per gallon) 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 or as needed.

To control face flies, dilute one part concentrate to 59 parts water (2.1 fluid ounces per gallon). 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 1½ ounces per animal. Repeat daily as needed.

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 600 parts water. 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 2.1 fluid ounces of concentrate per gallon of water (1 part concentrate to 59 parts 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 one part of concentrate with 59 parts 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 one part of concentrate to 600 parts of water (0.2 fluid ounces per gallon) 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 one to 59 in water (2.1 fluid ounces per gallon) 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.

To control spinose ear tick, dilute at the rate of one part concentrate to 159 parts water (0.8 fluid ounces per gallon) and apply by individual syringing or pouring 1 to 2 ounces into each ear of large animals of a few days into the ears of dogs.

**IN BARN, MILKING PARLORS, MILK ROOMS, DAIRIES, AND POULTRY HOUSES:** To control flies, mosquitoes, and gnats, dilute at the rate of one part concentrate to 59 parts of water or oil (2.1 fluid ounces per gallon) and apply as a fog or 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 application as necessary.

**MOSQUITO CONTROL OUTDOOR APPLICATIONS:**

To control adult mosquitoes, using ground application, dilute 1 part concentrate in 4 parts water or oil (25.6 fluid ounces per gallon). Apply as a fine mist or fog. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Application of this product to any body of water is prohibited, when used for adult mosquito control. With mobile or truck mounted equipment the above application rate will result if a 300 foot swath is treated, traveling at 5 mph, dispensing spray at a rate of 10 fluid ounces per minute. Repeat as necessary usually once or twice a week.

Application using fixed wing aircraft: Use 1 to 2 ounces of concentrate in 4 gallons of water per acre.

To control mosquito larvae, dilute 7 ounces of concentrate in 5 gallons of oil and apply at a rate of 5 gallons per acre. Apply as a coarse wetting spray uniformly over wet lawns, swamps, marshes, or shallow waters. Do not exceed this dosage or fish kill may result.

**ON GROWING CROPS:** May be used on 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" where insects are flushed out of hiding and into contact with spray residues.

On the following crops to control the insects named, use 2 to 6 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	INSECTS
Asparagus	Asparagus Beetle
Beans	Aphids, Leafhoppers, Whitefly, Mexican Bean Beetle, 12-spotted Cucumber Beetle
Broccoli, Cabbage, Brussels Sprouts, Cauliflower	Aphids, Cabbage Looper, Cross-striped Cabbageworm, Diamond-back Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bug
Celery	Green Peach Aphid, 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, Diamond-back 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
<b>Ornamentals:</b>	
African Violets, Asters,	Aphids, Flea Beetles
Azaleas, Begonias, Camellias,	Leafhoppers
Carnations, Chrysanthemums,	
Dahlias, Dogwood, Geraniums,	
Gladioli, Marigolds, Roses,	
Rubber Plants, Wandering Jew	

**DROSOPHILA OR FRUIT FLY CONTROL:**

Dilute at the rate of 1 part concentrate with 1200 parts water (1 pint per 150 gallons or a tablespoonful with 4 gallons water). Thoroughly mix the emulsion in the spray tank. Make treatments as follows:

1. To protect tomatoes and fruits in baskets, on trucks or in plants, use a product registered for this use such as Pyrenone Crop Spray.
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 just prior to bringing fruit into it, the entire space inside the cannery should be sprayed at a dilution of 1 part concentrate to 59 parts water (1 pint) with 7 gallons 3 pints water or 2 tablespoonfuls with 3 1/2 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 spray into all cracks and crevices.

**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 must be disposed of at or by an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) then offer for recycling, 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 reuse container. Wrap container in several layers of newspaper and discard in trash.

**PRECAUTIONARY STATEMENTS**

**HAZARDS 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. If swallowed, do not induce vomiting. Call a physician immediately.

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 under way. After space spraying in meat packing plants, bakeries, and other food processing plants, these areas should be ventilated to remove insecticide odors, and the facilities and equipment thoroughly washed with an acceptable detergent solution and rinsed with potable water to remove all traces of contamination. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pets and birds, and cover fish aquariums before spraying.

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