

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

9-10-91

SEP 10 1991

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Mr. George Pipkin
Qualis Inc.
4600 Park Ave.
Des Moines, Iowa 50321

Dear Mr. Pipkin:

Subject: Label Revision
Qualis Insecticide Concentrate #4
EPA Registration No. 34797-82
Your Letter Dated July 15, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- 1. Revise the following under Directions For Use:

Do not use in food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food are served such as dining rooms but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed.

Non food/feed areas including (but not limited to) garbage rooms, lavatories, floor drains (to sewers) entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

- 2. The section headed "Treatment of Flying Insects Resting Places" should be the last paragraph in the Indoor Use Section. Relocate.

CONCURRENCES

SYMBOL	<i>Helix</i>					
SURNAME	<i>9-10-91</i>					
DATE						

3. Revise the statement not to be used within 100 feet (30 meters) of water or wetlands to "Not to be used within 100 feet (30 meters) of lakes and streams" and relocate this statement under Environmental Hazards.

4. Revise Environmental Hazards statements as follows:

This product is highly toxic to fish. Avoid direct applications to lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when wind speeds exceed 10 mph. Do not contaminate water when disposing of equipment washwaters. Shrimp and crab may be killed if application rates recommended on this label are exceeded. Use with caution where these are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

5. Delete "small animals" under livestock spray or identify, i.e., dogs.

Submit five copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

QUALIS INSECTICIDE CONCENTRATE # 4

EPA REG. NO. 34797-82

EPA EST. NO. 34797-IA-03

FOR COMMERCIAL/AGRICULTURAL USE

For Use Outdoors and in Homes and Non-Food Areas of Commercial Buildings, Institutions, Warehouses, Theaters, Office Buildings, Schools, Motels, Hotels, Restaurants and Food/Feed Processing Establishments, also Kennels. Not for use in U.S.D.A. Meat and Poultry Plants.

Kills Gypsy Moth Caterpillars and Japanese Beetles.

ACTIVE INGREDIENT:

*Permethrin: (3-phenoxyphenyl)-methyl-(+/-) cis/trans-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate.....10.0%

INERT INGREDIENTS.....90.0%

TOTAL 100.0%

*Cis/trans ratio: Max. 65% (+/-) trans and min. 35% (+/-) cis.

Keep Out of Reach of Children
C A U T I O N
See rear panel for additional precautionary statements.

NET CONTENTS: _____

Manufactured By:
Qualis, Inc.
Des Moines, IA 50321

ACCEPTED
with COMMENTS
in EPA Letter Dated:
SEPT 10 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 34797-82

DIRECTIONS FOR USE

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

Do not apply to classrooms when in use. Do not apply this product in patient rooms or in any rooms when occupied by the elderly or infirm.

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water and blend thoroughly. Do not hold dilutions for more than 24 hours.

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquaria before spraying.

Do not use in food areas of food-handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

INDOOR USE AREAS

- Bakeries
- Beverage Plants
- Canneries
- Flour Mills
- Food Processing Plants
- Grain Elevators
- Granaries
- Homes
- Hospitals (non-occupied patient areas)
- Hotels
- Industrial Installations
- Kennels
- Motels
- Office Buildings
- Railroad Cars
- Restaurants
- Schools
- Ships' Holds
- Supermarkets
- Truck Trailers
- Warehouses

As a SURFACE SPRAY: For initial clean up of severe insect infestation, dilute at a rate of two quarts of concentrate in 25 gallons of water (2.6 fluid ounces per gallon).

For normal infestations, dilute one quart of concentrate in 25 gallons of water (1.3 ounces per gallon).

TO CONTROL: Cockroaches, Water Bugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Sawtoothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Mealworms, Grain Mites, 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 base of machinery, and behind shelves and drawers. Spray bookcases for silverfish. Spray ant 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 one gallon to 750 square feet of surface.

CONTROL Carpet beetles, spray edges of carpeting and under carpeting and
•. Make localized application to floor and baseboards. Spray directly into
cracks, closets and infested areas of shelving. Repeat treatment as
needed.

TO CONTROL Bedbugs spray mattresses lightly, particularly around tufts and
seams. Take beds apart and spray in all joints. Treat baseboards, moldings and
floors. Repeat treatment as needed. Allow all treated articles to thoroughly
dry before use.

TO CONTROL fleas and ticks (adults and larvae), 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
and floor covering. Fresh bedding should be placed in animal quarters
following treatment. To kill fleas and ticks on cats and dogs, and to obtain
protection against reinfestations, dilute at 1 quart concentrate to 25 gallons
of water (1.3 fluid ounces per 1 gallon) and wet the animal by dipping or
spraying. Use rubber gloves. Wash in well ventilated area. Make sure hair
is thoroughly wet to the skin. The area around the ears should be sponged
thoroughly. Avoid contact of material with eyes and mouth of animal.
Dipping should not exceed 30 seconds. Allow animal to dry in warm place
without rinsing or toweling. Do not use on sick, old or debilitated
animals. **DO NOT TREAT KITTENS OR PUPPIES LESS THAN FOUR WEEKS OLD.**

AS A SPACE SPRAY: Dilute at a rate of 1 quart concentrate to 25 gallons of
water (1.3 fluid ounces per gallon). Apply with mechanical or compressed
air equipment (non-thermal) adjusted to deliver a fine mist. Close doors
and windows and shut off ventilating systems. For rapid control of
house flies, fruit flies, gnats, mosquitoes, skipper flies,
wasps, hornets, bees, black flies, Angoumois grain moths and
tobacco moths, direct spray at an upward angle distributing it uniformly
through the entire area at a rate of 1 ounce per 1000 cubic feet of space.
Keep area closed for at least 10 minutes. Vacate areas after treatment
and ventilate and sweep up dead insects before reoccupying.

For rapid kill of exposed or accessible stages of other insects named
on this label, dilute 1 quart of concentrate in 25 gallons of water (1.3
fluid ounces per gallon). Apply using conventional, mechanical or compressed
air equipment (non-thermal), following directions for space spraying.
Apply the above dilutions at a rate of 1 ounce per 1000 cubic feet of
space.

OUTDOOR USE AREAS

- | | | | |
|--------------|--------------|-----------------|--------------------|
| Cattle Barns | Drive-In- | Horse Barns | Recreational Areas |
| Corrals | Theaters | Milking Parlors | Swine Houses |
| Dairies | Feedlots | Milk Rooms | Swine Lots |
| Drive-In- | Gardens | Parks | Urban Areas |
| Restaurants | Golf Courses | Playgrounds | Zoos |
| | | Poultry Houses | |

Do not allow spray treatment to drift on pasture land, cropland, poultry ranges
or water supplies. Do not use on crops used for food, forage or pasture.

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TREATMENT OF FLYING INSECTS' RESTING PLACES

To aid in control of mosquitoes, wasps, gnats, skippers: treat walls, ceilings, moldings, screens, door frames, window frames, beam, light cords and similar resting places using the above dilution of 1 quart of concentrate in 25 gallons of water. Not to be used within 100 feet (30 meters) of water or wetlands.

FOR TEMPORARY REDUCTION OF ANNOYANCE

From: Flies, Gnats, Mosquitoes

In drive-in-restaurants, drive-in-theaters, golf courses, urban areas, parks, playgrounds and other recreational areas: Dilute 1 quart concentrate in 25 gallons of water (1.3 fluid ounces per gallon of water). Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest. Apply while the air is still and avoid wetting foliage. Application should be made prior to use. Repeat as necessary.

In the treatment of corrals, feedlots, swine lots and zoos, cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, prevent exposure of reptiles to the product. Repeat as necessary.

To kill gypsy moths caterpillars and adults, adult Japanese beetles, and Eastern and forest tent caterpillars on contact, combine 1.3 fluid ounces of concentrate in 1 gallon of water (8 oz. in 6.25 gallons of water). Apply to insure thorough coverage of upper and lower surfaces.

On Trees and Shrubs

Treat trees and shrubs as soon as insects emerge (usually late spring). Treat leaves, branches and tree trunks evenly, making sure to penetrate dense foliage. Repeat application every 7 days as necessary for control (1 quart concentrate in 25 gal. water).

On Roses and in Flower Gardens

Treat plants and flowers as soon as insects appear. Spray plants and flowers making sure to penetrate dense foliage. Repeat application every 7 days or as necessary to control (1 quart concentrate in 25 gal. water).

LIVESTOCK SPRAY (dairy and beef cattle, sheep, swine, horses, and poultry)

Pests on Large Animals (Dairy or Beef Cattle and Horses) - For control faceflies, hornflies, horseflies, stableflies, mosquitoes, lice, mites or ticks, mix 1 quart of concentrate in 200 gallons of water. Spray to cover entire animal. A second treatment (14-21 days later) is recommended for lice or mites infestation. For spot treatment to control ear ticks, faceflies or hornflies, dilute 2 ounces of concentrate in 1 gallon of water. Apply 1/2 fluid ounce of diluted product to each ear, 2 to 4 ounces on face or 12-16 ounces along the backline.

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...ts on Swine, Sheep, Poultry or Small Animals (Do not ship swine or slaughter within 5 days of last treatment) - To control mange mites dilute 8 ounces in 25 gallons of water. Spray or dip animals. Repeat treatment in 14 days. Walls and floors of housing should be sprayed and bedding replaced to eliminate late hatching mites. TO control blowflies, mosquitoes, hog lice or fleas, dilute 8 ounces of concentrate in 25 gallons of water. Spray, paint or dip to apply about 1 pint per dog, pig, or sheep, especially around ears. TO control poultry mites, dilute 1 quart of concentrate in 50 gallons of water. Spray 1 gallon per 100 birds, directed toward vent area. Spray cages also.

IN BARNs, MILKING PARLORS, MILK ROOMS, DAIRIES AND POULTRY HOUSES: To control flies, mosquitoes and gnats, dilute at the rate of 6.5 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 treatment as necessary.

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 or 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.

CONTAINERS LARGER THAN ONE GALLON: Metal Containers - Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic Containers - Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Glass Containers - Triple rinse or equivalent. Then, dispose of in a sanitary landfill or by other approved state and local procedures.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash clothing before reuse. Avoid contamination of food and feed.

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STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air. Apply artificial respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas with plenty of soap and water.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in treated areas. Do not contaminate water when disposing of equipment washwaters. 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

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

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