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02/11/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 11 2005

Janice K. Sharp, Ph.D.
Valent Biosciences
870 Technology Way, Suite 100
Libertyville, IL 60048

Dear Dr. Sharp:

Subject: Multi-Purpose Pyrenone Insecticide Concentrate
EPA Reg. No. 73049-246
Submission dated 4-26-04

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below.

Add to the ingredient statement the following footnote:
Contains petroleum distillate.

Add to the directions for use:
In hospitals, remove patients from rooms before spraying. Ventilate rooms for two hours before returning patients to rooms.

Revise the 4th sentence of the Precautionary Statements to read as follows:
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

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One copy of the finished labeling must be submitted prior to releasing the product for shipment.
If you have questions, please call Ann Sibold at 703 305-6502.

Sincerely,

for Ann Sibold

Richard Gebken
Acting Product Manager 10
Insecticide Branch
Registration Division (7505C)

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MULTI-PURPOSE PYRENONE® INSECTICIDE CONCENTRATE

- A HIGHLY VERSATILE PYRENONE CONCENTRATE.
- MAY BE DILUTED WITH EITHER WATER OR OIL.
- FOR USE IN BAKERIES, BOTTLING PLANTS, CANNERIES, FLOUR MILLS, FOOD PROCESSING PLANTS, GRAIN ELEVATORS, HOSPITALS, HOTELS, MOTELS, RESTAURANTS, AND OUTDOORS FOR MOSQUITO CONTROL.
- CONTROLS MOSQUITOES THAT MAY CARRY WEST NILE VIRUS AND/OR ST. LOUIS ENCEPHALITIS

ACTIVE INGREDIENTS:

Ryethrins 1.0%
 Piperonyl Butoxide 10.0%

OTHER INGREDIENTS: 89.0%
 100.0%

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

EPA REG. NO. 73049-246

EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	<ul style="list-style-type: none"> • 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor. In case of medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-877-315-9819.	
NOTE TO PHYSICIAN	
Contains petroleum distillate vomiting may cause aspiration pneumonia.	

See Side/Back Panel For Additional Precautions

NET CONTENTS:

ACCEPTED
 with COMMENTS
 In EPA Reg. No. Dated:

FEB 11 2005

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended by the pesticide
 registered under EPA Reg. No.
73049-246

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PRECAUTIONARY STATEMENTS Hazards To Humans & Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Remove pets, birds and cover fish aquaria before spraying. Prevent re-entry of dogs and cats into treated area until spray deposits are dry.

When applying indoors, applicators must wear a dust/mist filtering respirator (NIOSH approved respirator with any R, P or H_e filter) where indicated.

Do not apply as a space spray while food processing is underway. Except in Federally inspected meat and poultry plants, when applied as a surface spray with care and in accordance with the directions and precautions given above, food processing operations may continue. Do not apply at any time as an undiluted space spray in edible product areas of Federally inspected meat and poultry plants. Cover or remove foods before treatments. Food processing surfaces and equipment must be covered during treatment or cleaned with a suitable detergent and rinsed with potable water before reuse. When using in animal quarters, do not apply directly to food, water or food supplements. Wash teats of dairy animals before milking.

Environmental Hazards

This product is toxic to fish. For terrestrial uses, 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 by cleaning of equipment or disposal of equipment washwaters. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources.

Physical Or Chemical Hazards

Do not apply this product near electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

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

Not for use on plants being grown for sale or other commercial use, or for 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, on golf courses or lawns and grounds.

This concentrate is designed to be diluted with water or oil before use. Only approved oils may be used in food handling establishments. Apply resulting spray solution using good mechanical or compressed air fogging equipment.

Food additive tolerances have been established for the insecticide components in this product. When this product is used as directed, allowable tolerance levels will not be exceeded.

INDOOR APPLICATION:

TO CONTROL EXPOSED STAGES Of *Houseflies, including Fruit Flies, Mosquitos, Gnats, Cluster Flies, and Flying Moths*, dilute 1 part concentrate in 19 parts water or oil (6 1/2 ounces per gallon or 5 gallons 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. Do not apply while food processing is underway.

For initial clean out of infestations of *Cockroaches, Ants, Spiders, Silverfish, Earwigs, Palmetto Bugs, Waterbugs, Firebrats, Flat Beetles, Crickets, Boxelder Bugs, Scorpions, and Clover Mites*: dilute 1 part concentrate in 4 parts water or oil. 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, baseboard 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.

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, Sawtoothed Grain Beetles, Spider Beetle, Dried Fruit Beetles, Dark Meal Worms, Dermestid Beetles, Bean Weevils, Cheese Mites and Grain Mites*: dilute at a rate of 1 part concentrate to 9 parts water or oil. 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.

Fumigate or treat infested stored products 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 protected 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 9 parts water, 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 *Indianmeal Moth* and *Angoumois Grain Moth* in stored grain: Dilute 1 part of concentrate in 4 parts of water 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*, *Houseflies*, *Mosquitoes*, and *Gnats*, dilute at the rate of 1 part concentrate to 39 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 to 9 parts water and apply a quart per adult animal to wet the hair thoroughly with particular attention to the topline, underline, flanks, withers, and other body areas commonly attacked by these flies. Repeat treatment each week or as needed. To control face flies, dilute 1 part concentrate to 9 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. 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 100 parts water. Spray to thoroughly wet the hair of the animal including the head and brush the tail. Repeat treatment in 10 days to kill newly hatched lice.

TO CONTROL *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.

FOR CONTROL OF *Bedbugs* and *Mites* in poultry houses, dilute 1 part of concentrate with 9 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 1 part of 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 reinfestation, dilute at 1 to 16 in water and wet the animal by dipping or spraying.

TO CONTROL *Spinose Ear Tick*, dilute at the rate of 1 part concentrate to 24 parts water and apply by individual treatment, syringing or pouring 1 to 2 ounces into each ear of large animals.

IN BARN, MILKING PARLORS, MILK ROOMS, AND DAIRIES: To control *Flies*, *Mosquitoes* and *Gnats*, dilute at the rate of 1 part concentrate to 9 parts of water or oil and apply as 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.

MOSQUITO CONTROL OUTDOORS: To control *Adult Mosquitoes*, using ground application, dilute 1 part concentrate in 7 parts of water or oil. 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 shorelines may be treated. Application of this product to any body of water is prohibited, when using for adult mosquito control.

With mobile or truck mounted equipment, apply a 400 foot swath, traveling at 15 mph, dispensing spray at a rate of 40 gallons per hour. Application using fixed-wing aircraft: Use 6 to 12 ounces of concentrate in 4 gallons of water per acre. To control mosquito larvae, dilute 2 1/2 pints 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 wetlands, swamps, marshes, or shallow waters. Do not exceed this dosage or fish kill may result.

ORNAMENTALS: (African Violets, Asters, Azaleas, Begonias, Camellias, Carnation, Chrysanthemums, Dahlias, Dogwood, Geraniums, Gladioli, Marigolds, Roses, Rubber Plants, wandering Jews, etc.) *Aphids*, *Flea Beetles*, *Leafhoppers*, *Whiteflies*, *Japanese Beetles* and *Gypsy Moth Adults* and *Caterpillars*.

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DROSOPHILA OR FRUIT FLY CONTROL: Dilute at the rate of 6 parts concentrate with 1200 parts water (6 pints per 150 gallons or 6 tablespoonfuls 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.
2. Spray the raw stock stacked in the yard.
3. Dip baskets in the diluted spray 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 6 parts concentrate to 59 parts water (6 pints with 7 gallons 3 pints water or 12 tablespoonfuls with 3 1/4 pints water). At the rate of 1 gallon to 750 square feet (1 qt to 188 square feet) direct spray on walls, ceilings, and floors, paying special attention to forcing spray into all cracks and crevices.

STORAGE AND DISPOSAL

FOR CONTAINERS LARGER THAN ONE GALLON:

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

Pesticide Storage And Spill Procedures: Store upright at room temperature. 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: Wastes resulting from use of this product may be disposed on site or at 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 if allowed by State and local authorities by burning. If burned, stay out of smoke.

FOR CONTAINERS ONE GALLON AND SMALLER:

Storage: Store in original container in a cool dry place inaccessible to children and pets and away from heat and sunlight.

Container Disposal: If empty: Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Valent BioSciences Corporation. All such risks shall be assumed by the user or buyer.

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