

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

27 OCT 1995

Ms. Sharon M. Johnston
 Registration Specialist
 AgrEvo Environmental Health
 95 Chestnut Ridge Road
 Montvale, NJ 07645

Dear Ms. Johnston,

Subject: Application for Label Amendment for Multi-Purpose
 Pyrenone Insecticide Concentrate 4816-442.

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. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

Based on our review of the acute toxicology data you cited, the tox profile is as follows:

Acute Oral Toxicity: Category IV
 Acute Dermal Toxicity: Category III
 Acute Inhalation Toxicity: Category III
 Primary Eye Irritation: Category III
 Primary Skin Irritation: Category IV
 Dermal Sensitization: Product is a sensitizer.
 Copies of the acute tox reviews are attached for your information.

The Statement of Practical Treatment must be revised as follows:

If Swallowed: Contact a physician or Poison Control Center. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.
 If on Skin: Wash with plenty of soap and water. Get medical attention.
 If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
 If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

CONCURRENCES

SYMBOL	PM10	The Precautionary Statements must be revised as follows:				
SURNAME	L. Arnold					
DATE	10/26/95					

3''

Harmful if absorbed through the skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash before reuse. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

In view of the acute tox data you cited, we have reconsidered our earlier requirement that you delete the protective mask from the label. Accordingly, this language should be added to the Directions for use:
Wear mask or respirator of a type recommended by the U.S. Bureau of Mines to give adequate protection against this material when space spraying.

If you have questions, please call Ann Sibold at 703 305-6502.

Sincerely,

RPK

Richard P. Keigwin, Jr.
Product Manager 10
Insecticide & Rodenticide Branch
Registration Division (7505C)

**MULTI-PURPOSE PYRENONE®
INSECTICIDE CONCENTRATE**

EPA Reg. No. 4816-442

EPA Est. No.

- * 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

ACTIVE INGREDIENTS:

Pyrethrins 1.0%
*Piperonyl Butoxide, Technical 10.0%

INERT INGREDIENTS: 89.0%
100.0%

*Equivalent to min. 8.0% (butylcarbityl) (6-propylpiperonyl) ether and to 2.0% related compounds.

†Contains petroleum distillate

Pyrenone is a registered trademark of AgrEvo Environmental Health, Inc.

**KEEP OUT OF REACH OF CHILDREN
CAUTION
STATEMENT OF
PRACTICAL TREATMENT**

If Swallowed: Contact a physician or Poison Control Center. Do not induce vomiting. ~~This product contains petroleum distillate. Aspiration may be a hazard.~~ Do not give anything by mouth to an unconscious person.

If On Skin: Wash with plenty of soap and water. Get medical attention if necessary. Avoid alcohol.

See rear panel for additional precautions

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

Wear a mask or respirator of a type recommended by the U.S. Bureau of Mines to give adequate protection against this material when space spraying.

ACCEPTED
with COMMENTS
in EPA Letter Dated
27 OCT 1995

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

4816-442

Harmful if absorbed through the skin or inhaled. Causes moderate eye irritation. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN & DOMESTIC ANIMALS**

CAUTION

Wash thoroughly with soap and water.
Avoid contact with skin and clothing. Prolonged or repeated skin contact may cause allergic reactions in some individuals. If contact occurs, flush skin with plenty of water. Wash hands after using. Remove pets, birds and cover fish aquaria before spraying. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash before reuse.

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 direction and precautions given above, food processing operation may continue. Do not apply at any time as an undiluted space spray in edible product areas of Federally inspected meat and poultry plants. Foods should be removed or covered 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, or 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 washwater. 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 plantscapes, ornamental gardens or parks, on golf courses or lawns and grounds.

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.

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: Remove pets, birds, and cover fish aquaria before spraying.

To control exposed stages of House Flies, including Fruit Flies, Mosquitoes, 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. Repeat treatment as needed.

For initial clean out of infestations of Cockroaches, Ants, Spiders, Silverfish, Earwigs, Palmetto Bugs, Waterbugs, Firebrats, Flat Beetles, Crickets, Booklouse 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, nest and runs. When possible, spray insects directly. After an interval of one month or when

reinfestation occurs, repeat treatment using a dilution of 1 part concentrate plus 9 parts water or oil and apply at a rate of 1 gallon to 750 square feet.

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.

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 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, breakup 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 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 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 Kod,** 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 pets and to obtain protection against reinfestation, dilute at 1 to 16 in water 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 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 or a few drops into the ears of dogs.

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 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 application as necessary.

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. Repeat as necessary, usually once or twice a week.

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.) to control **Aphids, Flea Beetles, Leafhoppers, Whiteflies, Japanese Beetles and Gypsy Moth Adults and Caterpillars.**

DROSOPHILA OR FRUIT FLY CONTROL: Dilute at the rate of 6 parts concentrate with 1200 parts water (6 pints per 150 gallons or 6 tablespoonsful 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, Code 2870.
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 tablespoonful 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

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: Wastes resulting from use of this product may be disposed of 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 by incineration, 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.

Disposal: Wrap container in several layers of newspaper and discard in trash.

Notice: Buyer assumes all responsibility for safety and use not in accordance with directions.