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JUL 10 1980

Mr. Jan Brill
 Fairfield American Corporation
 809 Harrison Street
 Frenchtown, NJ 08825

Dear Mr. Brill:

Subject: Derringer® Insecticide
 EPA Registration No. 4816-677

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,



Phil Eatten
 Product Manager (17)
 Insecticide-Rodenticide Branch
 Registration Division (H7505C)

Enclosure

51263:I:A-4:Rollis:H-14:KENCO:6/26/89:7/26/90:dg:vo:sw:ek:dg

CONCURRENCES

SYMBOL								

CODE 72548

DERRINGER[®] INSECTICIDE

JUL 10 1977

EPA Reg. No. 4316-a77

EPA Est. No. 279-NY-1

A SYNTHRIN[®] PYRETHROID FOR EFFECTIVE ADULT MOSQUITO CONTROL
CONTAINS SYNTHRIN[®] AND BUTACIDE[®]

Also contains Stable Flies, Blackflies, Biting Gnats, Deer
Flies and Horseflies

To be applied by Mosquito Abatement Districts, Public Health
Officials and other trained personnel in Mosquito Control
Programs.

Contains 1.51 lb/gal (181 g/L) of Synthrin and 4.51 lb/gal
(340 g/L) of Butacide.

ACTIVE INGREDIENTS

*Resmethrin	18.00%
Related Compounds	0.45%
**Piperonyl Butoxide, Technical	34.00%
INERT INGREDIENTS	18.55%
	100.00%

*Cis-trans isomers ratio max. 30% (+) cis and min 70% (-) trans.

**Equivalent to min. 43.2% (butylcarbinyl 1-
propylpiperonyl) ether and 10.8% related compounds

SYNTHRIN AND BUTACIDE are Registered Trademarks of Fairfield
American Corporation.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for additional precautions.

DIRECTIONS FOR USE

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

This product is designed to be used with nonthermal or
mechanical spray equipment. It may be used undiluted or
diluted with 50 to 60 second viscosity oil.

Mix well before using. Avoid storing excess formulation in
spray equipment tank beyond the period needed for
application.

ULTRA LOW VOLUME APPLICATIONS
DILUTED

For control of adult mosquitoes (including organophosphate resistant strains) and blackflies.

For use in nonthermal ULV portable backpack equipment similar to the Hudson B.P. mix 7.75 fl. oz. (230 ml) of this product with 1 gallon (3.79 liters) OF OIL. Adjust equipment to deliver fog particles of 13 microns median mass diameter. Apply at the rate of 4.25-6.50 fl. oz. of finished formulation per acre (311-621 ml/hectare) as a 50 ft. (15.2 meters) swath while walking at a speed of 2 m.p.h. (3.2 kph). This is equivalent to 0.0033-0.0070 lb. a.i. resmethrin per acre (3.92-7.83 gm per hectare). Where dense vegetation is present the higher rate is recommended.

For truck mounted nonthermal ULV equipment similar to LECO HD or MICRO-GEN, mix 51 fl. oz. (1506 ml) of this product with 77 fl. oz. (2277 ml) of oil. Adjust equipment to deliver fog particles of 12 microns median mass diameter. Apply at the following rates:

Truck Speed	Del. Rate fl. oz./min	Del. Rate (1 oz/acre (0.4 Hectare)	Spray Swath
5 mph (8 kph)	2.25-4.50 (60-5-133 ml)	0.75-1.50 (22.2-44.4 ml)	500 ft. (151.4 meters)
10 mph (16 kph)	4.5-9.0 (133-266 ml)	0.75-1.50 (22.2-44.4 ml)	500 ft. (151.4 meters)

These rates are equivalent to 0.0033-0.0070 lb. a.i. resmethrin per acre (3.92-7.83 gm per hectare) plus 0.0195-0.0210 lb. a.i. piperonyl butoxide tech. per acre (11.77-23.54 gm per hectare). Where dense vegetation is present the use of the high rate and slower speed is recommended.

NOTE: 1 gallon (3.8 L) of this product contains enough active ingredient to treat up to 428.4 acres (173.4 hectares) for adult mosquito control.

Fog only when air currents are less than 5 mph (8 kph). It is preferable to fog during early morning and late afternoon when there is less breeze and convection currents are minimal. Arrange to apply the fog in the direction with breeze to obtain maximum swath length and better distribution. Direct spray head of equipment in a manner to insure even distribution of the fog throughout the area to be treated. Avoid prolonged inhalation of fog.

Guide the direction of the equipment so that the nozzle is maintained at a distance of more than 6 feet (1.83 meters) from ornamental plants and 15 feet (4.57 meters) or more from painted objects. Temperature fluctuations will require periodical adjustment of equipment to deliver the desired flow rate at the specified speed of travel. The flow

rate must be maintained to insure the distribution of the proper dosage of finished formulation.

Spray parks, campsites, woodlands, athletic fields, golf courses, swamps, tidal marshes, garbage dumps, residential areas and municipalities, around the outside of apartment buildings, restaurants, stores and warehouses. Do not spray on cropland, feed or foodstuffs. Avoid direct application over lakes, ponds and streams.

USE OF FIXED WING AIRCRAFT OR HELICOPTER

Thoroughly mix 25.5 fl. oz. (755 ml) of this product with 102.5 fl. oz. (3030 ml) of oil.

For a treatment rate of 0.007 lb. a.i. per acre (7.25 gm per hectare) resmethrin plus 0.021 lb. a.i. per acre (21.75 gm per hectare) piperonyl butoxide tech. apply at a rate of 3 fl. oz. per acre (219 ml per hectare).

For a treatment rate of 0.0035 lb. a.i. per acre (3.93 gm per hectare) resmethrin plus 0.0105 lb. a.i. per acre (11.77 gm per hectare) piperonyl butoxide tech. apply at a rate of 1.5 fl. oz. per acre (109.5 ml per hectare).

Application should be made in the early morning or evening when wind speeds are low. It is not recommended to make application when wind speeds exceed 3 mph (5 kph). Repeat as necessary. Apply when temperatures exceed 50° F (10° C).

UNDILUTED

For control of stable flies, (cock flies), biting gnats, house flies and horse flies.

Treat shrubbery and vegetation where insects may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines, residential and recreational areas may be treated. Application of this product to any body of water is prohibited. Apply this product undiluted at a rate of 36-72 fl oz/hr (1.065-2.129 L/hr) by use of a suitable ULV generator traveling at 5 mph (8 kph) or at a rate of 72-144 fl. oz/hr (2.129-4.259 L/hr) while traveling at 10 mph (16 kph). When spraying apply across wind direction approximately 300 ft. (91.4 meters) apart. Apply when winds range from 1-10 mph (1.6-16.0) kph). Repeat 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, filler'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.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact a physician or Poison Control Center immediately. Do not induce vomiting. Vomiting may cause aspiration pneumonia.

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

IF ON SKIN: Remove contaminated clothing and wash affected areas of skin with soap and water. Contact a physician if irritation persists.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fish. Drift and runoff from treated areas may be hazardous to fish in adjacent waters. Consult your State's Fish and Wildlife Agency before treating such waters.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

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

