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Mr. A. Kevin Magro
Control Consultant
Clarke Outdoor Spraying Company, Inc.
159 North Garden Avenue
P.O. Box 72288
Roselle, IL 60172

Dear Mr. Magro:

Subject: Revised Label - Increase Wind Speeds Up to 10 Miles Per Hour
BIONIST 4 + 12 ULV
EPA Registration No. 8329-34
Your Submission Dated November 9, 1989

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 change listed below before you release the product for shipment bearing the amended labeling.

- The data presented in the reprint article, although not involving either of the active ingredients in the subject product, are adequate to support the feasibility of allowing ground application for mosquito control in wind speeds up to 10 miles per hour (mph). We note that the flow rates for the subject product when converted to gallons per hour (gph) to allow direct comparison to the rates in the reprint article, ranged from 2.1 to 8.4 gph in terms of product (= 0.63 to 2.5 gph permethrin and 1.90 to 7.59 gph piperonyl butoxide), are in the same range as resmethrin and malathion in the reprint article. There is no information in the article relative to flow rates for aerial application at wind speeds above 5 mph, but we note that malathion ULV directions allow application in up to 10 mph winds at the same 3.0 fluid ounces per acre as stated on the subject product label for aerial application, thus revision of the general maximum permissible wind speed from 5 up to 10 mph is acceptable for both ground and air. Relative to ground application directions, at the present time the label states that 0.0017 to 0.07 lb ai permethrin and 0.005 to 0.021 lb ai

51061;I;LaRocca;LLR-10;KENC0;07/19/90;08/17/90;CL;VO;EK;DD

CONCURRENCES

SYMBOL	SURNAME	DATE					

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piperonyl butoxide are to be applied per acre. According to our calculations, with a vehicle speed of 10 mph and a flow rate of 4.5 to 18.0 fluid ounces per minute, this is only possible for a swath width of 6 feet. You should provide a table of flow rates required to achieve these per-acre application rates at different vehicle speeds for a specific swath width or alternatively a table relating flow rate, swath width, and vehicle speed should be prepared and appear in the ground application directions. Following these directions must result in the same per-acre depositions of actual insecticide regardless of the flow rate, swath width, or vehicle speed involved, since the rates required for adult mosquito control have been established by test data.

We do not object to the product name change to "BIOMIST 4 + 12 ULV."

Submit five (5) 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 yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (R7505C)

Enclosure

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Avoid breathing of mist. Do not contaminate food or feed products.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center immediately. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia.

If Inhaled: Remove victim to fresh air. Apply artificial respiration if indicated.

If On Skin: Remove contaminated clothing and wash affected areas with soap and water.

If In Eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

This product is extremely 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 adjacent areas. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

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. Flashpoint minimum of 170°F.

DIRECTIONS FOR USE

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

E.P.A. EST. No. 83291L01
E.P.A. Reg. No. 8329-34

NET CONTENTS

Clarke Outdoor Spraying Co., Inc.
P.O. Box 100
Roselle, Illinois 60172
as amended for the pesticide registered under EPA Reg. No.

8329-34

ACTIVE INGREDIENTS:

Permethrin (3-Phenoxyphenyl)methyl (±) cis, trans-3-(2,2-dichloroethyl)-2,2-dimethyl-cyclopropanecarboxylate	4.00% w/w
Technical Piperonyl Butoxide	12.00%
INERT INGREDIENTS	84.00%
	100.00% w/w

Contains petroleum distillates

Contains 0.3 pounds of Permethrin and 0.9 pounds of Piperonyl Butoxide per gallon

CAUTION

KEEP OUT OF REACH OF CHILDREN

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

CONDITIONS and RATES to USE for MOSQUITO CONTROL

Do not apply this product within 100 feet (30 meters) of lakes and streams. BIOMIST 4-12 ULV is recommended for application as an ultra low volume (U.L.V.) nonthermal aerosol (cold fog) to control adult mosquitoes in residential and recreational areas where these insects are a problem. For best results treat when mosquitoes are most active and weather conditions are conducive to keeping the fog close to the ground, e.g. cool temperatures and wind speed not greater than 5 mph. Application during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

MANUFACTURED BY

CLARKE OUTDOOR SPRAYING CO., INC.
152 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

NOTICE: Seller makes no warranty, expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions.

U.L.V. Nonthermal Aerosol Midges and Blackflies, apply applicator capable of producing size from 5 to 30 microns and a the product undiluted at a flow vehicle speed of 10 mph. If a d These rates are equivalent to 0. of Piperonyl Butoxide per acre mosquito population. Use high high. An accurate flow meter r application, mount the fog appl level and directed out the bac may result in reduced effective arial U.L.V. equipment capab less with no more than 2.5% ex be set so as to achieve 3.0 flu should be made when wind is k streams.

STOP

Do not contaminate water, f

PESTICIDE STORAGE A temperature. Avoid exposur soak up with an absorbent etc Dispose of with chemica

PESTICIDE DISPOSAL: disposed of on site or an ap

CONTAINER DISPOSAL: reconditioning, or puncture approved state and local pr

CONTAINERS ONE GAL containers in several layers

CONTAINERS LARGER rinse or equivalent. Then o dispose of in a sanitary land authorities. Plastic Containe or reconditioning, or punc incineration, or if allowed by out of smoke Then dispose local procedures

FOR MORE
1-800-3
1-800

BEST AVAILABLE COPY