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8329-44

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 18 1992

Mr. A. Kevin Magro
Clarke Mosquito Control Products, Inc.
159 N. Garden Ave.
P.O. Box 72288
Roselle, IL 60172

300 / 171
BOSD2
FR

Dear Mr. Magro:

Subject: Amendment - Change Brand Name
Permethrin 57% OS
EPA Registration No. 8329-44
Your Application Dated November 13, 1992

The amendment 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 indicated below prior to release for shipment of product bearing the amended labeling.

1. The word "Active Ingredient" should be in singular form instead of plural form.
2. We have no objection to the product name of Permethrin 57% OS. The subject record file has been changed accordingly.

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 yours,

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

Enclosure

CONCURRENCES

SYMBOL							
SURNAME							
DATE	12/18/92						

**Precautionary Statements
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS
CAUTION**

Avoid if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

STATEMENT OF PRACTICAL TREATMENT
If Swallowed: Call a physician or Poison Control Center. Do not induce vomiting. This product contains a flammable petroleum solvent. Aspiration may be a hazard.

ENVIRONMENTAL HAZARDS
This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, to areas where surface water is present or to overhead areas below the mean high water mark. 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. Do not apply this product or allow it to drift to blooming crops or weeds where bees are actively visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS
Do not use or store near heat or open flame.

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

**CONDITIONS and RATES to USE
for MOSQUITO CONTROL
FOR A BARRIER SPRAY**

This product is effective for reducing mosquito annoyance and control of mosquitoes by transmitting diseases such as La Crosse encephalitis, dog heartworm, dengue fever, and western encephalitis. Apply product with mist blower, power backpack or ULV machine. ULV machines used. Adjust pressure to deliver particles from 25-200 microns. Do not allow spray treatment to drift on pasture land, crop land, poultry ranges or water supplies. Do not use on crops used for food, storage or pasture.

Normal use pattern of product requires a residual application on plant and other surfaces where mosquitoes may rest. Product commonly provides sustained control in wooded areas lasting up to 14 days in shaded areas. Secondary activity of product is through repellency. Apply product by ground application (equipment such as mist blower, ULV equipment, power backpack or pressure sprayer). Not to be used within 100 feet (30 meters) of lakes and streams. To kill or repel mosquitoes, midges, deer flies and other biting flies, mix with enough oil mixture so as to easily apply 0.1 pounds of Permethrin per acre. The oil mixture is obtained by mixing 1/2 part of soybean oil to two parts of mineral oil. Non phytotoxic oils must be used. The following chart represents some test applications based on a 2 MPH walking speed with a fifty (50) foot swath. To adjust for alternate walking speed, adjust flow rate accordingly so as to achieve 0.1 pounds of Permethrin per acre.

For A Two (2) Mile Per Hour Walking Speed And A 50 Foot Application Swath—The Following Are Typical Field Dilutions.

Permethrin 57%	Oil	Fl oz. Finished Spray Per Acre	Fl oz./Min.
1 Part	90 Parts	25.0	5.0
1 Part	50 Parts	17.5	3.5
1 Part	40 Parts	12.5	2.5

ACTIVE INGREDIENTS
Permethrin (3-Phenoxyphenyl)methyl (2) cis, trans-3-(2,2-dichloroethoxy)-2,2-dimethyl-cyclopropanecarboxylate 57.00%
INERT INGREDIENTS 43.00%
100.00%

Contains petroleum distillates.
Cis/trans isomers ratio: min. 35% cis and max. 65% trans.
Contains 5 lb./gal. Permethrin

CAUTION
KEEP OUT OF REACH OF CHILDREN

MANUFACTURED BY
CLARKE MOSQUITO CONTROL PRODUCTS, INC.
159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

EPA EST No. 83291D1
EPA Reg No. 8329.44

NET CONTENTS

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.

This is equivalent to 0.1 lb. of Permethrin/Acre. Apply the product with sufficient carrier to allow distribution over the area to be treated using particle sizes from 25-200 microns and to obtain optimum results, cover the immediate surroundings of housing, buildings including paint surfaces where mosquitoes may rest. For large recreational areas such as football fields, stadiums, racetracks, and public parks, spray the immediate mixture at the above mentioned application rate on the interface of woods surrounding the main area where the event is to take place. Spray may also be applied in any vegetated area where mosquitoes may rest causing infestations in recreational areas.

To Kill Gypsy Moths and Tent Caterpillars infesting woodland and forest areas, Apply the insecticide mixture (as described above) directly to insect nests and vegetation by backpack applicator using 12 Fl Oz./acre at a walking speed of 2 MPH over a swath of 50 feet, applying 12.6 Fl Oz./minute. This is equivalent to 0.25 lb. of Permethrin/acre. Apply thoroughly to all foliage and insect nests.

TRUCK MOUNTED -ULV- EQUIPMENT
PERMETHRIN 57% is recommended for application as an ultra low volume (ULV) nonthermal aerosol (cool fog) to control adult mosquitoes in residential and recreational areas where these insects are a problem, such as but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas and municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. Do not apply this product within 100 feet (30 meters) of lakes and streams. Do not allow spray treatment to drift on pastured cropland, poultry ranges, or water supplies. For best results treat when mosquitoes are most active. Weather conditions are conducive to keeping the fog close to the ground, e.g. cool temperatures and wind speed not greater than 10 mph. Applications during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

ULV, Nonthermal Aerosol (Cool Fog) Application: To control Mosquitoes, Midges and Blackflies apply PERMETHRIN 57% using any standard U/LV ground applicator capable of producing a nonthermal aerosol spray with droplets ranging in size from 5 to 30 microns and a mass median diameter (MMD) of 10 to 20 microns. Apply the product undiluted at a flow rate of 0.54 to 3.25 fluid ounces per minute at an average vehicle speed of 10 mph. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.0035 to 0.021 pounds of Permethrin per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when populations are high. An accurate flow meter must be used to ensure the proper flow rate. PERMETHRIN 57% may also be applied by diluting with a suitable solvent such as a non-phytotoxic mineral oil. The following charts represent some suggested dilution and application rates for ground U/LV applications. An alternate dilution rate is used. Adjust flow rate accordingly.

FOR A 1:1 PERMETHRIN 57% SOLVENT DILUTION RATIO
Mix one (1) part PERMETHRIN 57% with one (1) part solvent and apply at the following rates:

Permethrin pounds/acre	Application Rate		Fl. oz. finished spray per acre
	50MPH	10MPH	
0.007	2.70	5.40	0.90
0.0035	1.35	2.70	0.45
0.00175	0.68	1.35	0.23

FOR A 1:5 PERMETHRIN 57% SOLVENT DILUTION RATIO
Mix one (1) part PERMETHRIN 57% with five (5) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rate		Fl. oz. finished spray per acre
	50MPH	10MPH	
0.007	5.40	10.75	1.90
0.0035	2.70	5.40	0.90
0.00175	1.35	2.70	0.45