



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

SEP 6 2005

Mr. H. R. McLane  
Agent for Gil Manufacturing  
7210 Red Road, Suite 206  
Miami, FL 33143-5321

Dear Mr. McLane:

Subject: Amendment - Add Use Over Crop with Tolerances  
Omega Mist MAC  
EPA Registration Number 11930-2  
Your submission dated November 12, 2004

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

Please note that this product is subject to PR Notice 2005-1, Labeling Statements for Products Used for Adult Mosquito Control. The effective date of this Notice was April 15, 2005 with a compliance date of October 1, 2005. Refer to the instructions for submitting amended labeling in compliance with the PR Notice.

If you have any questions in regard to this letter please feel free to contact me at 703-305-6100.

Sincerely,

A handwritten signature in black ink, appearing to read "G. LaRocca".

George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosure

# OMEGO MIST™ MAC

Label unit 1 of 2

For Application only by Public Health Officials, and Trained and Qualified Personnel of Mosquito Abatement Districts and Other Mosquito Control Personnel. This product is Ready-To-Use as an all temperature, Quick knockdown, Low odor, Non-corrosive, Synergized, synthetic Pyrethroid for control of Adult Mosquitoes, Biting and Non-Biting Midges, Black flies and other outdoor flying insects as listed on this label which cause Public Health annoyance in Residential, Municipal and Recreational Areas. READ ENTIRE LABEL BEFORE USING. Do not allow spray to drift on; pastureland; cropland; except those crops, over which it may be used as listed on this label; or on potable water supplies. FOR CONTROL OF ADULT MOSQUITOES.

## HOW TO APPLY

EPA Reg. No. 11930-2 EPA Est. No. 11930-AL-1

For proper ground application mount the fog applicator so that the nozzle is at least 4 1/2 feet above ground level and directed out the back of the vehicle. May be applied at speeds of 5 m.p.h. up to 20 m.p.h. Failure to follow these label directions may result in reduced effectiveness. For "Aerial Application refer to the "Aerial Application section on this label. OMEGO MIST MAC may be used as is, or diluted with a suitable solvent such as a 60 to 100 Second viscosity mineral oil and applied at a rate not to exceed 0.9636 fl. oz. of OMEGO MIST MAC, per acre. Both aerial and ground applications should be made when the wind is less than 10 M.P.H. For exact rates, see the "UNDILUTED" or the "FOR DILUTION" Rates charts on this label.

OMEGO MIST MAC is recommended for application as an Ultra Low Volume (U.L.V.) Thermal or Non-thermal aerosol (cold fog) to control adult mosquitoes, and other insects as listed on this label, in residential and recreational areas where these insect pests become a problem; such as, but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, and non-crop waste areas. Do not apply this product within 100 feet (30 Meters) of lakes and streams. For Best Results, treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the fog close to the ground. e.g. cool temperatures and wind speeds are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are usually preferable. Repeat treatment when recommended by Public Health Officials or Mosquito Abatement Districts.

## ULV NON-THERMAL AEROSOL (COLD FOG)

To control Mosquitoes, Midges and Blackflies apply OMEGO MIST MAC using any standard U.L.V. ground applicator capable of producing a non-thermal aerosol fog with droplets ranging in size from 5 to 30 microns in diameter and a mass median diameter (MMD) of 15 to 20 microns, (droplets should not exceed 50 microns and less than 5% of drops should be below 5 microns), with an application swath width of 300 feet. Silicon slides should be required for calibration. Droplet size of application may be determined using the following procedure: Droplet size should be sampled using Teflon coated glass slides. An adequate amount of air should be sampled by using, for example, rotating rod samplers. Other sampling techniques, such as AMES machine, may be used if authorized by local authorities. Slides are examined microscopically and the diameter of droplets measured in microns. Slides should be scanned until 100 to 200 droplets have been assessed. A spread factor of 0.61 should be used to correct droplet diameters. The largest droplet should not exceed 50 microns and less than 5% of the droplets should be below 5 microns. A 90% value of the droplets should be in the range of 5 to 30 microns in size.

When applying this product undiluted, apply at a flow rate of 0.5196 to 5.4950 ounces per minute at an average vehicle speed of 10 M.P.H. These rates are equivalent to 0.00175 to 0.0185 pound of permethrin a.i. and 0.00175 to 0.0185 pound of piperonyl butoxide a.i. per acre. If a different vehicle speed is used, adjust the rate accordingly. Vary flow rates accordingly to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when insect populations are high. An accurate flow rate control system must be used to ensure proper flow rate. OMEGO MIST MAC may also be applied by diluting, 1 part to 1 part of a 60 to 100 second mineral oil or another suitable solvent, applied so as not to exceed the maximum a.i. rates per acre as shown in the rates charts. If an alternate dilution rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within label specifications. Do not exceed a flow rate of 20 oz. minute unless recommended and required by equipment manufacturers and / or Public Health Officials for vehicle speeds of 10 to 20 m.p.h. and when the fogging equipment is capable of such higher rates of output per minute. (05-03-05)

### ACTIVE INGREDIENTS:

Permethrin; [CAS 2645-53-1] - - - - - 30.0%  
Piperonyl Butoxide Technical; [CAS 51-03-5] - - - - - 30.0%

OTHER INGREDIENTS: - - - - - 40.0%

Total 100.0%

Contains 2.588 lb. A.I. Permethrin plus 2.588 lbs. A.I. Piperonyl Butoxide per Gallon. \* Contains a Petroleum Distillate Solvent

## KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente\* (If you do not understand the label, find someone to explain it to you in detail).

## FIRST AID

**IF SWALLOWED** - Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES** - Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING** - Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED** - Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-858-7378 for emergency medical treatment advice. See below for additional Precautionary Statements

**NOTE TO PHYSICIAN:** \*Solvent presents an aspiration hazard. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration hazard.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Contains petroleum distillate. Harmful if swallowed, or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or the toilet. Prolonged or repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated sites may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

**BEE WARNING:** 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 AND CHEMICAL HAZARDS

Do not use, pour, spill 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.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place designated for such insecticides and out of reach of children. Do not expose to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust or fuller's earth, sweep up and place in a labeled container and dispose of as follows.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved wastes disposal facility.

**CONTAINER DISPOSAL:** (Metal) 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. (Plastic) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## NET CONTENTS

1 Gal. ☐ 2 1/2 Gal. ☐ 5 Gal. ☐ 30 Gals. ☐

## Gil Manufacturing, Inc.

P.O. Box 230224 Montgomery, AL 36123 U.S.A.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
SEP 16 2005

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

11930-2

Page 5 of 6

09/06/2005 13:47

1056613036

H R MCCLANE INC

PAGE 05

2/3

# OMEGO MIST™ MAC

Label Unit 2 of 2

## MAY BE APPLIED OVER THE FOLLOWING CROPS

OMEGA MIST MAC may be applied over specific growing crops and range grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can only be made where the following crops are present:

Almonds	Range Grasses
Apples	Leafy vegetables
Broccoli	Lettuce
Brussels sprouts	Mushrooms
Cabbage	Onions, dry bulb
Celery	Peaches
Cauliflower	Pears
Cherries	Peppers, bell
Corn, fodder	Soybeans
Corn, forage	Tomatoes
Corn grain	Vegetables, cucurbits
Eggplant	Walnuts

In the treatment of corrals, feed lots, swine lots, poultry ranges and zoos cover any exposed drinking water, drinking fountains and animal feed before application. Do not apply this product within 100 feet (30 meters) of lakes and streams.

## ★ AERIAL APPLICATION

Aerial application with ULTRA LOW VOLUMES of OMEGA MIST MAC applied according to the Rates Charts on this label, may be considered necessary when conducted at the discretion of Public Health Officials, Mosquito Abatement Districts, or other trained personnel engaged in outdoor mosquito and flying insect control programs, when these insects threaten to become a public health hazard. Application should be made by suitable aerial U.L.V. equipment capable of producing droplets with an MMD of 50 microns or less with no more than 2.5% exceeding 100 microns at an altitude of 120 to 175 feet depending on the terrain and weather conditions. The recommended airspeed for Fixed Wing aircraft with flat fan nozzles is from 120 to 160 mph. For Rotary Aircraft equipped with rotary nozzles, apply at a sufficient airspeed to deliver the appropriate amount of OMEGA MIST ULV a.i. per acre. Do not exceed 6.3637 fluid ounces per acre of OMEGA MIST MAC which is equal to 0.007 lb. permethrin a.i. and 0.007 lb. piperonyl butoxide a.i. per acre.

**PROHIBITION ON AERIAL USE IN FLORIDA:** Not for aerial application in the State of Florida unless specifically authorized by the Florida Bureau of Entomology and the Florida Department of Agriculture and Consumer Services.

## THERMAL AEROSOL FOGGING

**TRUCK MOUNTED:** Apply OMEGA MIST MAC diluted or undiluted with Suitable Thermal Fogging equipment. Droplet size of thermal "fog" will be very small usually in the 0.1 to 1.0 micron range. If diluted use a 50 to 100 second viscosity mineral oil, or another suitable non-phytotoxic diluent, to reduce oil requirement and sludge buildup in equipment. Do not exceed the maximum rates. May be applied at speeds of 5 m.p.h. up to 20 m.p.h. For use with Hand Carried and/or Lawn Mower Foggers, use the same rates of a.i. per acre with a 50 foot swath width at a walking speed of 2 m.p.h. Do not fog to wet foliage. Do not fog when wind conditions exceed 10 miles per hour. Only use a clean, well maintained, and properly calibrated Fogger, known to give excellent performance. Fog Down wind. Apply OMEGA MIST MAC to deliver 0.00175 to 0.01850 lb. of Permethrin a.i. and 0.00175 to 0.01850 lb. Piperonyl Butoxide a.i. per acre.

## CONDITIONS AND RATES TO USE OMEGA MIST MAC UNDILUTED

pounds a.i. per acre		APPLICATION RATES				FL. OZ. of OMEGA MIST
PERMETHRIN	PBO	FL. OZ. PER MINUTE AT M.P.H				MAC per ACRE
		5 MPH	10 MPH	15 MPH	20 MPH	
0.01850	0.01850	2.7474	5.4950	8.24255	10.9900	0.9158
0.00700	0.00700	1.0396	2.0792	3.1188	4.1584	0.3465
0.00350	0.00350	0.5198	1.0392	1.5594	2.0792	0.1732
0.00175	0.00175	0.2598	0.5196	0.7794	1.0392	0.0866

## DILUTION RATES FOR OMEGA MIST MAC

### FOR A 1:4 DILUTION

Mix 1 part OMEGA MIST MAC with 4 parts Suitable Mineral Oil; apply as follows:

pounds a.i. per acre		Application Rates				Fl. oz. finished spray
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				per acre
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	5.1980	10.3960	15.5940	20.7920	1.7326
0.00350	0.00350	2.5965	5.1930	7.7895	10.3860	0.8655
0.00175	0.00175	1.2985	2.5990	3.8985	5.1984	0.4332

### FOR A 1:8 DILUTION

Mix 1 part OMEGA MIST MAC with 8 parts Suitable Mineral Oil; apply as follows:

pounds a.i.s per acre		Application Rates				Fl. oz. finished spray
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				per acre
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	9.3480	18.6960	28.0440	37.3920	3.1166
0.00350	0.00350	4.6749	9.3499	14.0249	18.6999	1.5583
0.00175	0.00175	2.3374	4.6749	7.0124	9.3499	0.7791

### FOR A 1:2 DILUTION

Mix 1 part OMEGA MIST MAC with 2 parts Suitable Mineral Oil; apply as follows:

pounds a.i. per acre		Application Rates				Fl. oz. finished spray per acre
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	3.1161	6.2323	9.3485	12.4647	1.0387
0.00350	0.00350	1.5580	3.1161	4.6742	6.2323	0.5193
0.00175	0.00175	0.7790	1.5580	2.3371	3.1161	0.2596

## USE AS AN INSECT BARRIER TREATMENT

For use in Non-Thermal ULV, motorized, portable, Backpack, Fog type Mist Blower equipment apply OMEGA MIST MAC with equipment adjusted to deliver ULV particles of 50 to 100 mass median diameter. OMEGA MIST MAC may be applied undiluted or diluted (see Application Rates tables section). If diluted use a 30 to 100 second mineral oil, or another, (if recommended by Public Health Officials), suitable non-phytotoxic diluent. Use 0.00175 to 0.0185 pound Permethrin a.i. per acre at a 50 ft. (15.2 m) swath width, while walking at a speed of 2 m.p.h. (3.2 k.p.h.). Whether applied undiluted or diluted, or at a different speed, make sure that the same amount of Permethrin a.i. is applied / acre.

## READ ENTIRE LABEL BEFORE USING

Read the entire Directions for Use, Conditions, Disclaimer of Warranties, and Limitation of Liability before using this product. By using this product, user and buyer accept 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. Injury, 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 Gil Mfg. Co., Inc. All such risks shall be assumed by the user or buyer.

**Disclaimer of Warranties:** There are no warranties express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the statements made on this label.

No agent of Gil Mfg. Co., Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

Gil Mfg. Co., Inc. disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

**LIMITATION OF WARRANTIES:** The exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price, or at Gil Mfg. Co., Inc.'s option, the replacement of the product. (05-03-05)

**Gil Manufacturing, Inc.**

P.O. Box 230224  
Montgomery, AL 6123 U.S.A.