



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Sent by CERTIFIED MAIL

MAR 22 2007

Mr. H.R. McLane
Agent for Gil Manufacturing, Inc.
7210 Red Road, Suite 206A
Miami, Florida 33143

Dear Mr. McLane,

Subject: Agency Initiated Action – PR Notice 2005-1 Product Labeling
Omego Mist Mac
EPA Reg. No. 11930-2
Application dated November 6, 2006

The labeling referred to above, submitted in connection with registration under the Federal, Insecticide, Fungicide and Rodenticide Act, is acceptable provided you make the following changes before releasing product bearing the amended labeling for shipment. For additional guidance, I attached a copy of Gil Manufacturing product labeling for EPA Reg. No. 11930-5.

1. Page 1

- a. Main Heading. Delete: "For application only by Public Health Officials, and Trained and Qualified Personnel of Mosquito Abatement Districts and Other Mosquito Control Personnel." Replace this language with Recommendation 1 from PR Notice 2005-1 as follows:

"For use only by federal, state, tribal, or local government officials for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision."

- b. Remove the phrase "All-Temperature" from the label. State a minimum temperature for application of this product to control the listed pests. EPA recommends 50⁰ F as the minimum temperature for application.

- c. FIRST AID Statement. Revise the "Note to Physician" as prescribed in the EPA Label Review Manual (LRM) to read: *"Contains Petroleum Disillate. Vomiting may cause aspiration pneumonia."*
- d. Environmental Hazards. Revise this section to read exactly as it appears in Recommendation 3 and Recommendation 6 of PR Notice 2005-1.

"This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition into bodies of water may be hazardous to fish and other aquatic organisms. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes, or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters."

"This product is toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort."

- e. Directions for Use (page 1). Remove the statement "Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow are properly calibrated." This statement will be included with similar directions in another section of the directions for use as described below in 2 (b)(vi). In its place, add Recommendation 4 from PR Notice 2005-1:

"Before making the first application of the season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist."

2. Page 2.

- a. In the table describing application rates, remove the 0.01850 permethrin lbs/acre and the 0.01850 piperonyl butoxide lbs/acre application rates. The maximum application rate allowed on a permethrin mosquito adulticide label is 0.007 lbs. permethrin/acre.
- b. HOW to APPLY. (You may want to revise this section to read "How to Apply and When to Use" as stated on the label of EPA Reg. No. 11930-5 and move this heading before the Rates Chart.)
 - i. Remove Recommendation 3. Recommendation 3 is to be included in the Environmental Hazard Statement only as described above in 1(d).
 - ii. Add the statement: *"Apply when temperatures are above 50° F and wind speed is equal to or is greater than 1 mph."*
 - iii. Revise the paragraph preceded by the word "**IMPORTANT**" as follows to

include Recommendation 7 from PR Notice 2005-1 and other use limiting language specific to permethrin mosquito adulticide applications:

“Do not re-treat a site more than once in 24 hours and no more than 2 applications should be made to any site in a 1 week period. Do not apply more than 0.185 lbs. of permethrin per acre per year to any site. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.”

iv. Move the section on page 3 under the heading entitled “*May Be Applied Over the Following Crops*” to the “*How to Apply*” section of the directions for use. Make the following changes to the listed crops: “*Lettuce*” should be changed to “*Lettuce, head*”, and “*Leafy vegetables*” should be changed to “*Leafy vegetables (except Brassica)*”. Retain the statement “*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.*”

v. Add the heading “*GROUND APPLICATIONS*” before the heading “*ULV Non-Thermal Aerosol (cold fog)*”.

vi. ULV Non-Thermal Aerosol (cold fog) instructions. Revise this section. The first sentence should be changed from “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.” to read:

“To control mosquitoes, midges, and blackflies apply OMEGO MIST MAC using truck mounted ground ULV (cold fog) equipment.”

Delete the following: “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 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 100-200 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.”

Insert PR Notice 2005-1 Recommendation 5 following the first sentence: “*Spray equipment*

must be adjusted so the volume median diameter is less than 30 microns ($Dv\ 0.5 < 30\ \mu m$) and that 90% of the spray is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\ \mu m$). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated."

3. Page 3.

- a. In the first paragraph, revise "When applying this product undiluted, apply at a flow rate of 0.5376 to 5.6835 ounces per minute at an average vehicle speed of 10 M.P.H. These rates are equivalent to 0.00175 to 0.0185 lbs of permethrin a.i. and 0.00175 to 0.0185 lbs of piperonyl butoxide a.i. per acre." to

"When applying this product undiluted, apply at a flow rate of 0.5376 to 2.1505 ounces per minute at an average vehicle speed of 10 M.P.H. These rates are equivalent to 0.00175 to 0.007 lbs of permethrin a.i. and 0.00175 to 0.007 lbs of piperonyl butoxide a.i. per acre."

- b. Move the aerial application instructions to the bottom of the page (so they are not in the Ground Application section) and make the following revisions to include PR Notice 2005-1 Recommendation 5.

- i. Revise: "Aerial applications with Ultra-Low Volumes of OMEGO MIST MAC applied according to the Rates Chart 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 public health hazard." to

"Make Ultra-Low Volume aerial applications of OMEGO MIST MAC according to the application rate table on this label. Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ($Dv\ 0.5 < 60\ \mu m$) and that 90% of the spray is contained in droplets smaller than 100 microns ($Dv\ 0.9 < 100\ \mu m$). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated."

(Note to H.R. McLane: The values stated above for aerial application are consistent with another Gil Manufacturing Product EPA Reg. No. 11930-5 (20% permethrin/20% PBO) but take into consideration the upper limit droplet values stated on the subject label.)

- ii. In the second half of the same paragraph revise: "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 120-175 feet depending on the terrain and weather conditions. The recommended airspeed for Fixed Wing aircraft with flat fan nozzles is from 120-160 mph. For rotary aircraft equipped with rotary nozzles, apply at sufficient airspeed to deliver the appropriate amount of OMEGO MIST MAC a.i. acre. Do not exceed 6.9472 fluid ounces per acre of OMEGO MIST MAC. Do not apply to bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes, or estuaries) except to target areas where adult mosquitoes are present." to read as follows:

"Application should be made by suitable aerial U.L.V. equipment at an altitude ranging from 120-175 feet depending on the terrain and weather conditions. The minimum spray boom height (from the ground) for application by fixed wing or rotary aircraft shall be 100 feet. The recommended airspeed for fixed wing aircraft with flat fan nozzles is from 120-160 mph. For aircraft equipped with rotary nozzles, apply at sufficient airspeed to deliver the appropriate amount of OMEGO MIST MAC a.i. acre. Do not exceed 0.007 lbs permethrin a.i./acre or 0.3584 undiluted fluid ounces per acre of OMEGO MIST MAC as listed in the Rates Chart."

Retain the statements describing ***Prohibition on Aerial Use in Florida.***

c. Thermal Aerosol Fogging. This section will be part of the Ground Application section. Recommendation 5 from PR Notice 2005 applies to droplet size determination of all fogging types. Revise this paragraph to read as follows:

*"Apply Omego Mist Mac diluted or undiluted suitable thermal foggers mounted on trucks. If diluted use a 60 to 100 second viscosity mineral oil, or another suitable non-phytoxic diluent, to reduce oil requirement and sludge buildup in equipment. May be applied at truck speeds from 5 m.p.h. to 20 m.p.h. but do not exceed the maximum active ingredient application rates. Spray equipment must be adjusted so the volume median diameter is less than 30 microns ($Dv\ 0.5 < 30\ \mu m$) and that 90% of the spray is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\ \mu m$). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using laser based equipment to produce acceptable droplet spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated. For use with **Hand Carried** and/or **Lawn Mower** thermal foggers, adjust the sprayer to apply the desired A.I. per acre based on a 50 feet swath and walking speed of 2 m.p.h. Do not fog to wet foliage. Thermal fogging applications of Omego Mist Mac can be made to deliver 0.00175 lbs. to 0.007 lbs of permethrin a.i. per acre and 0.00175 lbs. to 0.007 lbs. piperonyl butoxide a.i. per acre."*

d. Use as an Insect Barrier Treatment. In this paragraph change:

- Mass Median Diameter to *Volume Median Diameter.*
- 0.0185 pound to *0.007 lbs.*

Add the following restriction for barrier treatments only:

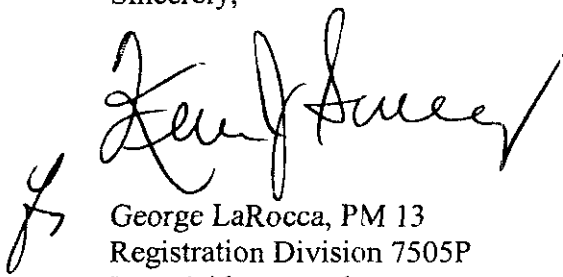
"When this product is applied as a barrier treatment, do not apply within 100 feet (30 meters) of lakes and streams."

4. Submit child resistant packaging (CRP) for this product or agree in writing that the product will be marketed in containers greater than five (5) gallons in size. The subject registration application listed one (1) gallon and 2 1/2 gallon container sizes. Your original registration, granted on November 6, 2002, listed container sizes of five (5) gallons or greater only. The one (1) gallon and 2 1/2 gallon container sizes cannot be sold without submission of this certification to EPA from Gil Manufacturing, Inc.

Please note that the availability of EPA's reregistration eligibility document (RED) for products containing permethrin was published in the Federal Register (FR) on June 28, 2006 (Vol. 71 No. 124 pg. 36788). The availability of the piperonyl butoxide RED was published in the FR on July 26, 2006 (Vol. 71, No. 143 pg. 42385). Additional data or labeling changes may be required for products containing permethrin and/or piperonyl butoxide.

A stamped copy of the label is enclosed for your records. Please submit 2 copies of the final printed label within 30 days of receipt of this letter and before releasing the product for shipment. If you have any questions, please do not hesitate to contact Kevin Sweeney at (703) 305-5063. Thank you for your patience and cooperation in this matter.

Sincerely,


George LaRocca, PM 13
Registration Division 7505P
Insecticides Branch

Enclosure

OMEGO Mist™ MAC

789 Label unit 1 of 3

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.

Page 4 of 6

ACCEPTED
with COMMENTS
In MAR 2 1994

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

11930-2

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

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 2.500 lb. A.I. Permethrin plus 2.500 lbs. A.I. Piperonyl

Butoxide per Gallon. * Contains a Petroleum Distillate Solvent

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

"PRECAUCIONAL 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 this 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 to bodies of water, (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries) except to target areas where adult mosquitoes are present. 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 to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a State, Tribal or Local Health or Vector Control Agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the State or Tribe during a natural disaster recovery effort.

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. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow are properly calibrated.

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 fullers 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. (09-23-05)

**Urban ULV
Mosquito Control
Applications:**

For control of resting or flying, adult mosquitoes, biting flies and biting midges in application sites of Residential, Municipal and Recreational areas such as: utility tunnels, sewers, storm drains and catch basins, pipe chases, underground basements, underground passages, parking decks, crawl spaces or underground buildings. This product may be applied using mechanical foggers, hand-held or truck mounted ULV equipment suitable for these applications. Apply at rates up to, but not exceeding, 0.007 lbs. active ingredient peremethrin per acre. See Rates Charts.

Recommendation # 3**LABEL REVIEW NOTE**

This is Label copy to conform to PRN #2005-1

Recommendation # 6

This NOTE will not appear on the finished label

LABEL REVIEW NOTE

This is label copy to conform to PRN #2005-1

Recommendation # 5

This NOTE will not appear on the finished label

NET CONTENTS: 1Gal ☐ 2 1/2 Gals. ☐ 5 Gals. ☐ 30 Gals. ☐ 55 Gals. ☐**Gil Manufacturing, Inc.** P.O. Box 230224 Montgomery, AL 36123 U.S.A.

OMEGO MIST™ MAC

CONDITIONS AND RATES TO USE OMEGO MIST MAC UNDILUTED

pounds a.i. per acre		APPLICATION RATES				FL OZ. of OMEGO MIST MAC per Acre
PERMETHRIN	PBO	FL OZ. PER MINUTE AT M.P.H.				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.01850	0.01850	2.8417	5.6835	8.5248	11.3664	0.9472
0.00700	0.00700	1.0752	2.1505	3.2226	4.3008	0.3584
0.0035	0.00350	0.5376	1.0752	1.6129	2.1505	0.1792
0.00175	0.00175	0.2688	0.5376	0.8064	1.0752	0.0896

DILUTION RATES FOR OMEGO MIST MAC

FOR A 1:4 DILUTION

Mix 1 part OMEGO 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	5.3763	10.7526	16.1289	21.505	1.7921
0.00350	0.00350	2.6881	5.3763	8.0645	10.7526	0.8960
0.00175	0.00175	1.3440	2.688	4.0320	5.3760	0.4480

FOR A 1:8 DILUTION

Application Rates						Fl. oz. finished spray
pounds a.i.'s per acre		Fl. oz. per Minute at Vehicle Speeds				per acre
PERMETHRIN	PBO	5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	9.6769	19.3539	29.0309	38.7078	3.2256
0.00350	0.00350	4.8384	9.6769	14.51541	19.3539	1.6128
0.00175	0.00175	2.4192	4.8384	7.2577	9.6769	0.8064

FOR A 1:2 DILUTION

Mix 1 part OMEGO MISTMAC with 2 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	3.2258	6.4516	9.6774	12.9032	1.0752
0.00350	0.00350	1.6129	3.2258	4.8387	6.4516	0.5376
0.00175	0.00175	0.8064	1.6129	2.4193	3.2258	0.2688

HOW TO APPLY

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 0.9472 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 to bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except to target areas where adult mosquitoes are present. 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.

IMPORTANT: Do not re-treat a site more than once in 24 hours; no more than 2 applications should be made to a site in any 1 week period. More frequent treatments may be made to prevent or control a threat to public and / or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the State or Tribe during a natural disaster recovery effort.

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. continued.....

LABEL REVIEW NOTE

This is Label copy to conform to PRN # 2005-1 Recommendation # 3. This NOTE will not appear on the finished label.

LABEL REVIEW NOTE

This is label copy to conform to PRN # 2005-1 Recommendation # 7. This NOTE will not appear on the finished label.

LABEL REVIEW NOTE

This Label copy was previously ACCEPTED and conforms to PRN # 2005-1 Recommendation # 4 & 5. This NOTE will not appear on the finished label.

OMEGO MIST™ MAC

ULV NON-THERMAL AEROSOL (COLD FOG) continued.....

When applying this product undiluted, apply at a flow rate of 0.5376 to 5.6835 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.

**AERIAL APPLICATION

Aerial application with ULTRA LOW VOLUMES of OMEGO 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 OMEGO MIST MAC a.i. per acre. Do not exceed 6.9472 fluid ounces per acre of OMEGO MIST MAC which is equal to 0.0185 lb. permethrin a.i. and 0.0185 lb. piperonyl butoxide a.i. per acre. Do not apply to bodies of water, lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries, except to target areas where adult mosquitoes are present.

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.

LABEL REVIEW NOTE

This Label copy was previously ACCEPTED and conforms to PRN # 2005-1 Recommendation # 4 & 5. This NOTE will not appear on the finished label.

Recommendation # 3.

THERMAL AEROSOL FOGGING

TRUCK MOUNTED: Apply OMEGO 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 60 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 OMEGO MIST MAC to deliver 0.00175 to 0.0185 lb. of Permethrin a.i. and 0.00175 to 0.0185 lb. Piperonyl Butoxide a.i. per acre.

USE AS AN INSECT BARRIER TREATMENT

For use in Non-Thermal ULV, motorized, portable, Backpack, Fog type Mist Blower equipment apply OMEGO MIST MAC with equipment adjusted to deliver ULV particles of 50 to 100 mass median diameter. OMEGO 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.

MAY BE APPLIED OVER THE FOLLOWING CROPS

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

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., Inc. All such risks shall be assumed by the user or buyer.

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