


72567-9

08/20/2002

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	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: 72567-9	Date of Issuance: AUG 20 2002
		Term of Issuance: Conditional	
		Name of Pesticide Product: Mac	
(under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code): Plexus Services, Inc. P.O. Box 3474 Deland, Florida 32707			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you: 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4. 2. Make the labeling changes listed below before you release the product for shipment: a. Add the phase "EPA Registration No. 72567-9".			
Signature of Approving Official:		Date:	

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3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

Front of Container
MACTM

Label copy unit 1 of 3

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For Application only by Public Health Officials and Trained Personnel of Mosquito Abatement Districts and other Mosquito control personnel. MAC is An All Temperature, Quick knockdown, Low Odor, Non-Corrosive, Synergized, Synthetic, Pyrethroid for use in the control of Outdoor Flying Insects, as; Adult mosquitoes, Biting and Non-Biting Midges, Black flies, Gnats, Cluster Flies, and House Flies in Residential, Municipal, Recreational, and non-crop Waste Areas.

EPA Reg. No. 72567-O =(9)_ EPA Est. No. 53883-TX-1

ACTIVE INGREDIENTS:

Permethrin: CAS [52645-53-1] - - - - - 30.0%

Piperonyl Butoxide Technical CAS [51-03-6] - - 30.0%

OTHER INGREDIENTS: - - - - - 40.0%

*Contains Petroleum Distillate; Total 100.0%

Contains 2.45 lbs. a.i. Permethrin / gallon and 2.45 lbs. a.i. Piperonyl Butoxide / gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

FIRST AID

IF SWALLOWED - Immediately call a Poison Control Center or doctor. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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.

IMPORTANT: Have this product container or label with you when calling a poison control center or doctor or when going for treatment. You may also call 1-800-858-7378 for emergency medical treatment advice. **NOTE TO PHYSICIAN:** Contains petroleum distillate - vomiting may cause aspiration hazard.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin, or inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Prolonged or frequently 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 and runoff from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not allow spray treatment to drift to pastureland, cropland, poultry ranges or water supplies. 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 on blooming crops or weeds while bees are actively visiting the treatment areas.

PHYSICAL AND CHEMICAL HAZARDS

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

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

Net Contents 9 Gallons.

PLEXUS SERVICES, INC.

P.O. BOX 3474 - DELAND, FL 32720

ACCEPTED
with COMMENTS
in EPA Letter Dated

AUG 20 2002

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

72567-9

MAC**DIRECTIONS FOR USE**

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

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. **MAC** may be used as is, or diluted with a suitable solvent i.e. a 60 to 100 Second viscosity mineral oil and applied at a rate not to exceed 0.9636 fl. oz. of **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 "DILUTION" Rates charts on this label.

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 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.

THERMAL AEROSOL FOGGING

Refer to the DILUTION RATES tables for fogging applications. Droplet size of thermal "fog" will be very small usually in the 0.5 to 1.0 micron range.

TRUCK MOUNTED - Apply **MAC** diluted or undiluted with Suitable Thermal Fogging equipment. 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 0.0185 lb. a.i. Permethrin per acre rate. 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 wet plant foliage. Do not fog when wind conditions exceed 10 miles per hour. Only use clean, well maintained, and properly calibrated equipment, known to give excellent performance. Fog Down wind. Apply **MAC** at 0.00175 lb. to 0.0185 lb. of a.i. Permethrin / a.i. Piperonyl Butoxide per acre.

USE AS AN INSECT BARRIER**AS AN INSECT BARRIER - USE A "BACKPACK" FOG-type - MIST BLOWER**

For use in Non-Thermal ULV, motorized, portable, Backpack, Fog type Mist Blower equipment apply **MAC** with equipment adjusted to deliver ULV particles of 50 to 100 mass median diameter. **MAC** may be applied undiluted or diluted (see Application Rates tables section). If diluted use a 30 to 100 second viscosity mineral oil, or another, (if recommended by Public Health Officials), suitable non-phytotoxic diluent. Use 0.00175 to .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.- Piperonyl Butoxide a.i. is applied / acre.

DIRECTIONS FOR AERIAL APPLICATION

Aerial applications should be done 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 300 feet and a forward speed of 150 m.p.h. achieving an effective swath width of 500 feet. Flow rate should be set at 146 ounces per minute; equal to 0.9636 ounce of **MAC** per acre. Flow rate and swath width should be set so as to achieve .0912 to 0.9636 fluid ounce of **MAC** per acre. The use of specially designed aircraft capable of applying **ULTRA LOW VOLUMES** of **MAC** at the Dilution Table rates, may be considered necessary when conducted at the discretion of Public Health Officials, Mosquito Abatement Districts, and other trained personnel engaged in outdoor Mosquito and Biting Fly control programs when these insects threaten to become a public health hazard. **PROHIBITION OF AERIAL USE IN FLORIDA:** Not for aerial application in Florida **UNLESS** specifically authorized by the Bureau of Entomology, Florida Department of Agriculture and Consumer Services.

STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE AND SPILL PROCEDURES:** Store upright at room temperatures. Do not expose to extreme temperatures. In case of spill or leakage, ventilate the area, wear chemical resistant gloves, and footwear. Retrieve and filter the liquid in some manner and use as directed on this label, or "soak-up" the liquid with absorbent material such as sawdust, soil, fuller's earth, or, etc. Dispose of the resulting chemical waste as follows. **PESTICIDE DISPOSAL:** Wastes resulting from a spill or the use of this product may be disposed of on site, or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Metal Containers- Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic Containers- Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned stay out of smoke. Then dispose of in a sanitary landfill or by other approved State and local procedures.

EPA Reg. No. 72567-9 EPA Est. No. 53883-TX-1

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MAC**ULV NON-THERMAL AEROSOL (COLD FOG)**

MAC is recommended for application as an Ultra Low Volume (ULV) non-thermal aerosol (Cold Fog) to control adult mosquitoes, flies and gnats 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, municipalities, gardens, playgrounds, recreational areas and non-crop waste areas. Do not apply within 100 feet (30 meters) of fish bearing waters. For best results treat when insects are most active and conditions are conducive to keeping the fog close to the ground. Repeat treatment when recommended by Public Health Officials or Mosquito Abatement Districts. To control Mosquitoes, Midges and Blackflies apply **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. When applying this product undiluted, apply at a flow rate of 0.5472 to 5.7816 ounce 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. **MAC** may also be applied by diluting with 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 below. If an alternate dilution is required, adjust the flow rate accordingly, provided droplet size and spectrum remain within label specifications. Do not exceed a flow rate of 20 oz. per minute unless recommended by equipment manufacturers and/or Public Health Officials that recommend a dilution of 1 to 4 or 1 to 8 and high vehicle speeds of 15 to 20 m.p.h. in emergency conditions utilizing fogging equipment that is capable of higher flow rates per minute. May be applied at truck speed of 5 to 20 mph.

CONDITIONS AND RATES TO USE MAC UNDILUTED

pounds a.i. per acre		APPLICATION RATES				FL. OZ. of 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	2.8908	5.7816	8.6724	11.5632	0.9636
0.00700	0.00700	1.0938	2.1876	3.2814	4.3752	0.3646
0.00350	0.00350	0.5469	1.0938	1.6507	2.1876	0.1823
0.00175	0.00175	0.2736	0.5472	0.8208	1.0944	0.0912

DILUTION RATES FOR MAC**FOR A 1:4 Dilution**

Mix 1 part 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	5.3847	10.7694	16.1541	21.5388	1.7949
0.00350	0.00350	2.6925	5.3850	8.0775	10.7700	0.8975
0.00175	0.00175	1.3464	2.6928	4.0392	5.3856	0.4488

FOR A 1:8 Dilution

Mix 1 part MAC with 8 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	9.5457	19.0914	28.6371	38.1828	3.1819
0.00350	0.00350	4.7727	9.5454	14.3181	19.0908	1.5909
0.00175	0.00175	2.3862	4.7730	7.1595	9.5460	0.7955

FOR A 1:2 Dilution

Mix 1 part 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	3.2814	6.5628	9.8442	13.1256	1.0938
0.00350	0.00350	1.6407	3.2814	4.9221	6.5628	0.5469
0.00175	0.00175	0.8205	1.6410	2.4615	3.2820	0.2735

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