

655-812

3-31-2008

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Prentiss, Inc.
c/o Mr. H.R. McLane
Authorized Agent
7210 Red Road, Suite 206A
Miami, FL 33143

MAR 31 2008

Dear Mr. McLane,

Subject: Label Amendment
PERM-X UL 31-66
EPA Reg. No. 655-812
Application dated December 12, 2007

The label amendment above, submitted in connection with the Federal Insecticide, Rodenticide, and Fungicide Act is acceptable provided you make the following changes before releasing product bearing the amended labeling for shipment.

1. Page 1

- a. As stated in Recommendation 1 of PR Notice 2005-1 revise "For use only by Federal, State, Tribal, Military, or local government officials responsible for public health 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." to "*For use only by federal, state, tribal, or local government officials responsible 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. As requested in our registration notice dated August 30, 2002 remove the "Note to Physician" statement. This statement is appropriate only for products containing significant amounts, >10% petroleum distillates, which is not the case for the subject product.
- c. **Physical and Chemical Hazards** should read: "**Combustible.** Do not use or store near heat or open flame."

2. Directions for Use. Make the following revisions:

- a. Move this statement to the beginning of the directions for use. *“Apply this product at temperatures greater than 50⁰ F and when wind speed equals or exceeds 1 mph.”*
- b. Add Recommendation 4 from PR Notice 2005-1 to the beginning of the directions for use. *“Before making the first application in a 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.”*
- c. Insert Recommendation 7 from PR Notice 2005-1 at the beginning of the directions for use. I suggest you use the language below and delete the language on your label appearing after the term “Important:”

“Do not treat a site with more than 0.007 lbs. permethrin per acre in a 24-hour 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.”

- d. Add the heading: **“Ground-Based Applications”** in order to categorize Non-Thermal Aerosol Fogging, Thermal Fogging and Insect Barrier Treatments as ground-based applications.
- e. Under the heading Non-Thermal Aerosol (Cold Fog), please revise as follows:
 - i. *“**Ground-based Application:** Spray equipment must be adjusted so the volume median diameter is less than 30 microns ($D_v 0.5 < 30 \mu m$) and that 90% of the spray is contained in droplets smaller than 50 microns ($D_v 0.9 < 50 \mu m$). 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.*
 - ii. Change “When applying this product undiluted, apply at a flow rate of 0.4794 to 5.0688 ounces per minute at an average speed of 10 mph These rates are equivalent to 0.00175 to 0.185 pounds of permethrin a.i. and 0.00380 to 0.03940 pounds of piperonyl butoxide a.i. per acre.” to read: *“When applying this product undiluted apply at a flow rate of 0.4794 to 1.91183 fluid ounces*

per minute an average speed of 10 mph. These rates are equivalent to 0.00175 to 0.007 pounds of permethrin a.i. and 0.00380 to 0.01490 pounds of piperonyl butoxide a.i. per acre.

- iii. Remove the highest application rates from the label and the rates table – 0.0185 lbs. permethrin a.i. per acre and 0.3940 lbs PBO a.i. per acre and 0.8448 fluid oz. PERM-X UL 31-66 per acre.
 - f. **Thermal Fogging.**
 - i. Change the heading “Thermal Aerosol Fogging” to read” Thermal Fogging”.
 - ii. Decrease the highest application rates to 0.007 lbs. permethrin a.i. per acre and 0.01490 PBO a.i. per acre.
 - g. **Aerial Application.**
 - i. Change “Do not exceed 0.007 lbs. permethrin a.i. per acre or 0.3584 undiluted fluid ounces per acre of PERM-X UL 31-66 as listed in the rates chart.” to “*Do not exceed 0.007 lbs. permethrin a.i. and 0.1490 lbs. PBO per acre. Do not apply greater than 0.3197 fluid oz. of undiluted PERM-X UL 31-66 per acre as listed in the rates chart.*”
 - h. **Rates Chart.** Change 1.9054 fl oz to 0.9054 fluid oz. in the “undiluted” rate table. This was a condition of product registration in our registration notice dated August 30, 2002.
 - i. **List of crops.**
 - i. Remove the following crops: corn, fodder and mushrooms (mushrooms are grown indoors).
 - ii. Change Vegetables, cucurbits to read: “*Vegetables, cucurbit group 9.*”
3. **Child Resistant Packaging.** In our pre-acceptance letter dated April 15, 2002 and registration notice issued August 30, 2002 the Agency’s requested CRP certification for the 5-30 gallon container sizes or a statement certifying that the channels of distribution for this product are not to homeowners. To date, you have not complied with this request but have included 1 gallon and 2½ gallons container (and 275 gallons container) sizes on this amendment application. Since you have not provided this information to us, we cannot approve the 1 gallon and 2½ gallons container sizes and your product cannot be marketed in these containers until the requested information has been submitted. Submit the above requested information to satisfy the conditions of this registration for the existing container sizes or the Agency will consider further regulatory action.
4. **Product Chemistry Data.** In our registration notice dated August 30, 2002 the Agency requested you to submit product chemistry data to satisfy guidelines 63-18 (*viscosity*), 63-20 (*corrosion characteristics*) and 63-17 (*storage stability*) as a condition of product registration. To date we have not received these data. Submit them immediately.

5. Storage and Disposal.

- a. Please move this section before or after the directions for use.
- b. Revise the container disposal instructions in accordance with PR 2007-4 as follows.

Nonrefillable 5 gallon containers

Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or mix tank and drain container for 10 seconds after the flow begins to drip. Fill the container ¼ full of water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank. Drain container for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once triple rinsed, recycle if available. Some agricultural pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact [a pesticide container recycling organization] at [phone number] or [website]. If recycling is not available, dispose of in a sanitary landfill or by incineration if allowed by state and local ordinances.

Nonrefillable 30 and 55 gallon containers.

Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full of water. Replace and tighten closures. Tip the container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once triple rinsed, recycle if available. Some agricultural pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact [a pesticide container recycling organization] at [phone number] or [website]. If recycling is not available, dispose of in a sanitary landfill or by incineration if allowed by state and local ordinances.

We assume your 275 gallon container size is a refillable bulk container.

Refillable 275 gallon bulk containers:

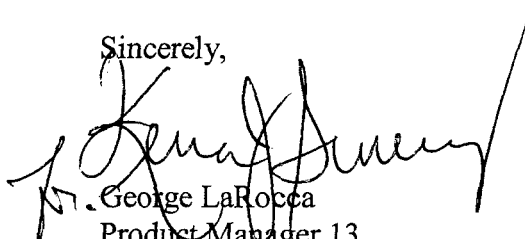
Container Disposal: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full of water. Agitate vigorously or recirculate water with pump for two minutes. Pour or pump rinsate into application equipment or rinsate

collection system. Repeat this rinsing procedure two more times. Once triple rinsed, recycle if available. Some agricultural pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact [a pesticide container recycling organization] at [phone number] or [website]. If recycling is not available, dispose of in a sanitary landfill or by incineration if allowed by state and local ordinances.

Please note that a notice of availability of EPA's reregistration eligibility document (RED) for products containing permethrin was published in the 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 and/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. Submit 2 copies of the final printed label and the requested certification and data as soon as possible. If you have any questions, please contact Kevin Sweeney at (703) 305-5063. Thank you for your cooperation in this matter.

Sincerely,



George LaRocca
Product Manager 13
Registration Division (7505P)
Insecticides Branch

Enclosure

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PERM-XTM UL 31-66

For use only by Federal, State, Tribal, Military, or local governmental officials responsible 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. This product is a Ready-To-Use, 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. Do not spray on or allow drift onto pastureland, cropland, (other than those crops listed), or potable water supplies.

For control of Adult Mosquitoes

EPA Reg. No. 655-812 EPA Est. No. 655-GA-1

ACTIVE INGREDIENTS:

Permethrin; [CAS 52645-53-1]	- - - - -	31.0%
Piperonyl Butoxide Technical; [CAS 51-03-6]	- -	66.0%
OTHER INGREDIENTS:*	- - - - -	9.0%

Total 100.0%

Contains 2.8025 lb. A.I. Permethrin plus 5.9668 lbs. A.I. Piperonyl Butoxide per Gallon. * Contains Mineral Oil

**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.

HOTLINE 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: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

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 aquatic organisms including fish and aquatic invertebrates. Runoff from treated areas or deposition to 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 to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

BEE WARNING: This product is toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto 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.

Net contents 2½ Gal. 5 Gals. 30 Gals. 55 Gals. 275 Gals.



PRENTOX® - Registered trademark of PRENTISS, Inc.
PERM-X™ Trademark of Prentiss Inc.

Prentiss, Incorporated

Office: C.B. 2000 - Floral Park, NY 11001-2000 U.S.A.

Plant: Kaolin Road - Sandersville, GA 31082

ACCEPTED
 WITH COMMENTS
 In EPA Letter Dated
 MAR 31 2008
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 this pesticide has been found to
 be registered under FIFRA Reg. No.
 655-812

PERM-X™ UL 31-66

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Label Unit 2 of 3

DIRECTIONS FOR USE

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

ULV NON-THERMAL AEROSOL (COLD FOG)

To control Mosquitoes, Midges and Blackflies apply *PERM-X UL 31-66* using truck mounted ground ULV (cold fog) equipment. Spray equipment must be adjusted so the volume median diameter is less than 30 microns ($Dv\ 0.5 < 30\ \mu$) and that 90% of the spray is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\ \mu$). 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.

When applying this product undiluted, apply at a flow rate of 0.4794 to 5.0688 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 0.00380 to 0.03940 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. *PERM-X UL 31-66* 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.

THERMAL AEROSOL FOGGING

Apply *PERM-X UL 31-66* diluted or undiluted by suitable Thermal Foggers mounted on trucks. 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. May be applied at truck speeds of 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 ($Dv\ 0.5 < 30\ \mu$), and that 90% of the spray is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\ \mu$). 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. 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 foot swath and a walking speed of 2 m.p.h. Do not fog to wet foliage. Thermal fogging applications of *PERM-X UL 31-66* can be made to deliver 0.00175 to 0.0185 lb. of permethrin a.i. per acre and 0.00175 to 0.0185 lb. piperonyl butoxide per acre.

USE AS AN INSECT BARRIER TREATMENT

For use in non-Thermal ULV, motorized, portable, backpack, and fog type mist blower equipment apply *PERM-X UL 31-66* with equipment adjusted to deliver ULV size droplets with a volume median diameter of 50 - 100 microns. *PERM-X UL 31-66* 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 0.01850 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 per acre. When this product is used as a Barrier Treatment do not apply within 100 feet, (30 meters), of lakes and streams.

**AERIAL APPLICATION

Make Ultra-Low Volume aerial applications of *PERM-X UL 31-66* 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 ($Dv\ 0.5 < 60\ \mu$), and that 90% of the spray is contained in droplets smaller than 100 microns ($Dv\ 0.9 < 100\ \mu$). 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 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. 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 aircraft or rotary aircraft shall be 100 feet. The recommended airspeed for fixed wing aircraft with flat fan nozzles is from 120 to 160 m.p.h. For aircraft equipped with rotary nozzles, apply at sufficient airspeed to deliver the appropriate amount of *PERM-X UL 31-66* a. i. per acre. Do not exceed 0.007 lb. permethrin a.i. per acre or 0.3584 undiluted fluid ounces per acre of *PERM-X UL 31-66* as listed in the Rates Chart.

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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE 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.

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

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PERM-XTM UL 31-66

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HOW TO APPLY and WHEN TO USE

CONDITIONS AND RATES TO USE PERM-X UL 31-66 UNDILUTED

pounds of a.i. per acre		APPLICATION RATES				FL. OZ. of PERM-X UL
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				31-66 per Acre
		5 MPH	10 MPH	15 MPH	20 MPH	
0.01850	0.03940	2.5340	5.0688	7.6032	10.1376	0.8448
0.00700	0.01490	0.9591	1.9183	2.8773	3.8364	0.3197
0.00350	0.00750	0.4797	1.9504	1.4391	1.9188	0.1599
0.00175	0.00380	0.2398	0.4794	0.7191	0.9588	0.0799

DILUTION RATES FOR PERM-X UL 31-66 FOR A 1:4 DILUTION

Mix 1 part PERM-X UL 31-66 with 4 parts Suitable Mineral Oil: Apply as follows:

pounds of 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	0.01490	4.4727	9.5454	14.3181	19.0908	1.5909
0.00350	0.00750	2.3865	4.7730	7.1595	9.5460	0.7955
0.00175	0.00380	1.1934	2.3868	3.5803	4.7736	0.3978

FOR A 1:8 DILUTION

Mix 1 part PERM-X UL 31-66 with 8 parts Suitable Mineral Oil: Apply as follows

pounds of 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	0.01490	8.4000	16.8000	25.2000	33.6000	2.8000
0.00350	0.00750	4.2000	6.4000	12.6000	16.8000	1.4000
0.00175	0.00380	2.1000	4.2000	6.3000	8.4000	0.7000

FOR A 1:2 DILUTION

Mix 1 part PERM-X UL 31-66 with 2 parts Suitable Mineral Oil: Apply as follows:

pounds of 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	0.01490	2.8767	5.7534	8.6302	11.5068	0.9589
0.00350	0.00750	1.4385	2.8770	4.3255	5.7540	1.4795
0.00175	0.00380	0.7184	1.4388	2.1582	2.8770	0.2398

Apply when temperatures are above 50°F and wind speed is equal to or is greater than 1 m.p.h.. 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. PERM-X UL 31-66 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 0.8448 fl. oz. of PERM-X UL 31-66, 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.

PERM-X UL 31-66 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. 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; and no more than 2 applications should be made to any site in a 1 week period. Do not apply more than 0.185 lb. 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."

URBAN ULV MOSQUITO 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 lb. active ingredient permethrin per acre. See Rate(s) Charts.

MAY BE APPLIED OVER THE FOLLOWING CROPS

PERM-X UL 31-66 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	Peaches - Pears
Apples	Cherries	Leafy vegetables	Peppers, bell
Broccoli	Corn, fodder	(except brassica)	Soybeans
Brussels sprouts	Corn, forage	Lettuce, head	Tomatoes
Cabbage	Corn, grain	Mushrooms	Vegetables, cucurbits
Celery	Eggplant	Onions, drybulb	Walnuts

Do not spray on or allow drift onto pastureland, cropland, (other than those crops listed), or potable water supplies. 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.