

655-813

04/27/2011

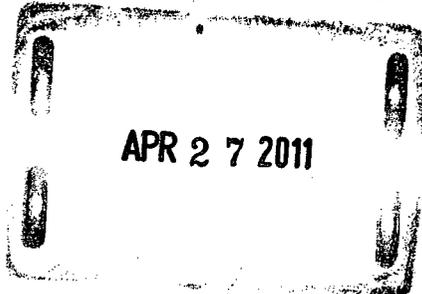
1/5



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Sharon M. Johnston
Agent for Prentiss
RegGuide
509 Tower Valley Drive
Hillsboro, MO 63050



Dear Ms. Johnston:

Subject: Amendment- container disposal section
Pretox PERM-X-UL 2-2
EPA Registration Number 655-813
Your submission dated March 16, 2011

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

A copy of the label is enclosed for your records.

If you have any questions, please contact Linda A. DeLuise at 703-305-5428.

Sincerely yours,

Richard Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7504P)

2/5



PERM-X™ UL 2-2

For use only by Federal, State, Tribal, or local government officials responsible for public health and vector control, or by persons certified by the state or tribal lead pesticide regulatory agency to perform adult mosquito control application, or by persons under their direct supervision. A Quick Knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for the control of Adult Mosquitoes, In Residential and Recreational areas. Also for use against Biting and Non-Biting Midges, and Black flies.

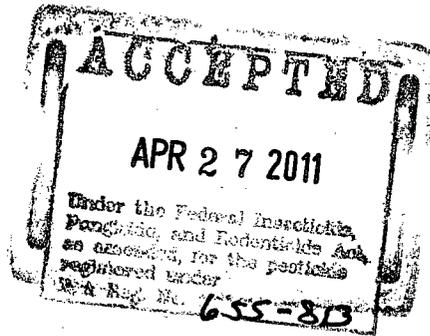
ACTIVE INGREDIENTS:

Permethrin, CAS [52645-53-1] 2.0%
 Piperonyl Butoxide Technical [51-03-6]..... 2.0%

OTHER INGREDIENTS*: 96.0%
TOTAL 100.0%

*Contains a Petroleum Distillate Solvent
 Contains 0.144 lb. A.I. Permethrin and 0.144 lb. A.I. Piperonyl Butoxide per gallon.

PRENTOX® - Registered Trademark of Prentiss Incorporated
PERM-X™ - Trademark of Prentiss Incorporated



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.	
FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
If swallowed	<ul style="list-style-type: none"> • Immediately call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 for treatment advice. • Do not induce vomiting unless told to do so by the Poison Control Center or physician. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious or convulsing person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 for treatment advice.
If inhaled	<ul style="list-style-type: none"> • 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, physician, or the National Pesticide Information Center at 1-800-858-7378 for treatment advice.
NOTE TO PHYSICIAN: Contains Petroleum Distillates - Vomiting may cause aspiration hazard.	
For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.	
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS	

EPA Reg. NO. 655-813

EPA Est. NO. _____
 Lot No. _____

Net Contents _____

Manufactured by:

PRENTISS INCORPORATED
 Plant: Kaolin Road, Sandersville, GA 31082
 Office: 3600 Mansell Road, Suite 350, Alpharetta, GA 30022

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. 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 the water in order 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 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 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 OR 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.

Apply this product at temperatures greater than 50°F and when wind speed equals or exceeds 1 mph.

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 permits or other regulatory requirements exist.

Conditions and Rates to Use for Mosquito Control

Do not spray this product on or allow it to drift onto pastureland, rangeland, cropland or potable water supplies. In the treatment of corrals, feedlots, animal confinements/houses, swine lots, poultry ranges, and zoos, cover any exposed drinking water, drinking water fountains and animal feed before application.

Do not treat a site with more than 0.007 pounds of permethrin per acre in a 24-hour period. Do not apply more than 0.18 lbs. of permethrin per acre per year to any site. More frequent applications 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.

Perm-X UL 2-2 may be applied either diluted or undiluted as a thermal or non-thermal fog. Applicators should wear long sleeved shirt, long pants, shoes and socks.

Perm-X UL 2-2 is recommended for application as an ultra low volume (ULV) non-thermal aerosol (cold fog) for control of adult mosquitoes, midges, and black flies in residential and recreational areas where these insects are a problem, such as parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. For best results, treat when insects are most active and conditions are conducive to keeping the fog close to the ground. Both ground and aerial applications should be made when meteorological conditions are conducive to keeping the spray cloud close to the ground, such as when air temperature inversion is present. Applications during the cool hours of early morning or evening are preferable. Do not apply when wind speeds exceed 10 mph or during calm air conditions (wind speeds <2-3 mph).

SPRAY DROPLET SIZE DETERMINATION

Ground-based Application: Spray equipment must be adjusted so that the volume median diameter is less than 20 microns ($D_v 0.5 < 20 \mu m$) and that 90% of the spray is contained in droplets smaller than 48 microns ($D_v 0.9 < 48 \mu m$). 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.

Aerial Application: Spray equipment must be adjusted so that the volume median diameter produced is less than 50 microns ($D_v 0.5 < 50 \mu m$) and that 90% of the spray is contained in droplets smaller than 100 microns ($D_v 0.9 < 100 \mu m$). 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.

Conditions and Rates to Use Perm-X UL 2-2 Undiluted for Mosquito Control

Permethrin/PBO Lbs. A.I./Acre	Application Rates/Fluid Ounces To Use Per Minute				Fl. Oz Perm-X UL 2-2 per Acre
	5 mph	10 mph	15 mph	20 mph	
0.007/0.007	18.8	Not Recommended	Not Recommended	Not Recommended	6.2
0.0035/0.0035	9.4	18.8	Not Recommended	Not Recommended	3.1
0.00175/0.00175	4.7	9.4	14.1	18.9	1.6

ULV-Non-Thermal-Aerosol (Cold Fog)-Application: To control mosquitoes, midges and black flies, apply Perm-X UL 2-2 using truck mounted ground ULV (cold fog) equipment with a swath width of 300 feet. Apply the product undiluted at flow rates of 4.7 to 18.8 fluid oz. per minute at a truck speed of 5 mph. If a different vehicle speed is used, adjust the flow rate accordingly. An accurate flow control system must be used to ensure proper flow rate. Use of the maximum flow rates and application rates listed on this label is recommended to treat heavy vegetation or when target insect populations are high. Do not exceed 20 fl. oz./minute. This product may be applied at truck speeds of 5 to 20 mph.

THERMAL AEROSOL FOGGING

Truck Mounted: Apply undiluted with suitable Thermal Fogging equipment. Do not exceed the maximum a.i./acre rates. May be applied at speeds of 5 to 20 mph. To reduce oil requirement and sludge buildup in equipment, use 100-second viscosity mineral "fog" oil. For use with hand foggers, use the same a.i./acre rates. Do not wet foliage since the oil base formulation may be phytotoxic. Do not fog when wind conditions exceed 5 miles per hour. Use well maintained and properly calibrated fogger. Fog downwind.

Recommended Dilution Rates to achieve 0.00175/0.00175 Lbs. A.I./Acre

Machine Output	Dilution Ratio 5 mph	Dilution Ratio 10 mph	Dilution Ratio 15 mph	Dilution Ratio 20 mph
10 gal/hr	1:3.5	1:1.3	1:0.5	1:0.1
20 gal/hr	1:8	1:3.5	1:2	1:1.3
30 gal/hr	1:12.6	1:5.8	1:3.5	1:2.4

Recommended Dilution Rates to Achieve 0.0035/0.0035 Lbs. A.I./Acre

Machine Output	Dilution Ratio 5 mph	Dilution Ratio 10 mph	Dilution Ratio 15 mph	Dilution Ratio 20 mph
10 gal/hr	1:1.3	1:0.2	Not Recommended	Not Recommended
20 gal/hr	1:3.7	1:1.3	1:0.6	1:0.2
30 gal/hr	1:6	1:2.5	1:1.3	1:0.8

Recommended Dilution Rates to Achieve 0.007/0.007 Lbs. A.I./Acre

Machine Output	Dilution Ratio 5 mph	Dilution Ratio 10 mph	Dilution Ratio 15 mph	Dilution Ratio 20 mph
10 gal/hr	1:0.2	Not Recommended	Not Recommended	Not Recommended
20 gal/hr	1:1.3	1:0.2	Not Recommended	Not Recommended
30 gal/hr	1:2.5	1:0.8	1:0.2	Not Recommended

Recommended Dilution Rates for Hand Held Thermal Foggers – 50 Ft. Swath Walking at 2 MPH

Machine Output	Dilution Ratio 0.00175/0.00175 Lbs. A.I./Acre	Dilution Ratio 0.0035/0.0035 Lbs. A.I./Acre	Dilution Ratio 0.007/0.007 Lbs. A.I./Acre
2 gal/hr	1:12.5	1:6	1:2.5
5 gal/hr	1:32.5	1:16.5	1:7.8
8 gal/hr	1:53.3	1:27	1:13

As a Barrier Spray Using a Backpack Mister Type Unit

For use in non-thermal, portable, motorized backpack equipment, apply Perm-X UL 2-2 with equipment adjusted to deliver ULV particles of 50 to 100 microns volume median diameter. Use 1.6 to 6.2 fl. oz. of the undiluted spray per acre (equal to 0.00175 to 0.007 lbs. a.i./acre) as a 50 ft. swath while walking at a speed of 2 mph (3.2 kph). May also be applied diluted, making sure that the same amount of a.i. (0.00175 to 0.007 lbs.) is applied per acre. When this product is applied as a barrier treatment, do not apply within 100 feet (30 meters) of lakes and streams.

Recommended Dilution Rates for Backpack Mister Type Unit – 50 Ft. Swath Walking at 2 MPH

Machine Output	Dilution Ratio 0.00175/0.00175 Lbs. A.I./Acre	Dilution Ratio 0.0035/0.0035 Lbs. A.I./Acre	Dilution Ratio 0.007/0.007 Lbs. A.I./Acre
1 gal/hr	1:5.8	1:2.5	1:0.8
2 gal/hr	1:12.5	1:6	1:2.5
3 gal/hr	1:19.3	1:9.6	1:4.3
4 gal/hr	1:26.1	1:13	1:6

Aerial Application

Use aircraft specially equipped and capable of applying Ultra-Low Volumes of Perm-X UL 2-2. Applications cannot exceed the recommended rates of 0.007 lbs. permethrin per acre and 0.007 lbs. piperonyl butoxide per acre, equivalent to 6.27 fl. oz. of undiluted Perm-X UL 2-2 per acre. Applications should be made at an altitude range of 120 to 175 feet (37 to 53 meters). Apply at airspeed sufficient to deliver the appropriate amount of active ingredient per acre. The minimum height (from the ground) for aerial application of this product is 100 feet.

