

1021-1795

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 14, 2012

Mr. Steven K. Ditto
Regulatory Affairs Specialist
McLaughlin Gormley King Company
8810 Tenth Avenue North
Minneapolis, MN 55427-4319

Subject:: Amended Labeling; Removal of Higher Use Rates for Difficult Species & Addition of Maximum Use Rates of PBO and Prallethrin
MGK® MULTICIDE® Fogging Concentrate 2798, EPA Reg. No. 1021-1795
Your Submission Dated December 21, 2011

Dear Mr. Ditto:

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

A copy of your label stamped "Accepted" is enclosed for your records. If you have any questions about this label review, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at Rodia.Carmen@epa.gov.

Sincerely Yours,

A handwritten signature in black ink, which appears to read "Richard J. Gebken", is written over a horizontal line.

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

Enclosure: Label stamped "Accepted"
001021-01795 D459639

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MULTICIDE® Fogging Concentrate 2798

[]denotes alternate language

[A Quick Knockdown, Oil Soluble Synergized Synthetic Pyrethroid for Effective Control of Adult MOSQUITOES, GNATS, BITING AND NON-BITING MIDGES and BLACKFLIES in Outdoor Residential and Recreational Areas]

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.

ACTIVE INGREDIENTS:

Prallethrin: (RS)-2-methyl-4-oxo-3-(2-propynyl) cyclopent-2-enyl-(1RS)-cis, trans-chrysanthemate	1.00%
Sumithrin®: 3-Phenoxybenzyl-(1RS, 3RS, 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) Cyclopropanecarboxylate.....	5.00%
* Piperonyl Butoxide, Technical.....	5.00%
** OTHER INGREDIENTS	89.00%
	100.00%

* Equivalent to 4.00% (butylcarbityl) (6-propylpiperonyl) ether and 1.00% related compounds

** Contains petroleum distillate

Contains 0.075 pounds of Prallethrin/Gallon, 0.375 pounds of Sumithrin®/Gallon and 0.375 pounds of Technical Piperonyl Butoxide/Gallon.

MULTICIDE® - Registered trademark of McLaughlin Gormley King Company

Sumithrin™ - Trademark of Sumitomo Company Ltd.

CAUTION

KEEP OUT OF REACH OF CHILDREN

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none">Immediately call a poison control center or doctor.Do not induce vomiting unless told to do so by a poison control center or a doctor.Do not give any liquid to the person.Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.	

Net Contents _____
Manufactured by:



8810 Tenth Avenue North
Minneapolis, MN 55427

EPA Reg. No. 1021-1795

EPA Est. No. 1021-MN-2

ACCEPTED

March 14, 2012
Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is 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 beyond the body of water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

BEE WARNING: This product is highly 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 OR CHEMICAL HAZARDS

Do not use 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.

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.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel only.

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

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

Wear long sleeved shirt and long pants, socks and shoes.

MULTICIDE® Fogging Concentrate 2798 cannot be diluted in water. Dilute this product with light mineral oil if dilution is preferred.

USE AREAS: For use in mosquito adulticiding programs involving outdoor residential and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses. For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Application in calm air conditions is to be avoided. Apply only when ground wind speed is greater than 1 mph. Air temperature should be greater than 50°F when conducting all types of applications. Do not treat a site with more than 0.0036 pounds of sumithrin, 0.0036 pounds of piperonyl butoxide, or 0.00072 pounds of prallethrin per acre in a 7-day period. More frequent applications may be made if adult mosquitoes have reinfested the treatment area and 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. Do not exceed 0.094 pounds of sumithrin, 0.094 pounds of piperonyl butoxide, or 0.019 pounds of prallethrin per acre in any site in a year.

SPRAY DROPLET SIZE DETERMINATION:

Ground-based Application: Spray equipment must be adjusted so that the volume median diameter (VMD) is between 8 and 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.

Aerial Application: 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 115 microns ($Dv\ 0.9 < 115\ \mu m$). The effects of flight speed and, for non-rotary atomizers, 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.

GROUND U.L.V. APPLICATION: To control Mosquitoes and other listed insects, apply-MULTICIDE® Fogging Concentrate 2798 at a flow rate of 2.5 to 7.4 fluid ounces per minute at an average vehicle speed of 10 mph using a swath width of 300 feet for acreage calculations (see chart below). Under normal residential conditions a flow rate of 4.6 fluid ounces per minute is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00024 to 0.00072 pounds of Prallethrin and 0.0012 to 0.0036 pounds of Sumithrin® and Piperonyl Butoxide per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rate in heavy vegetation or when populations are high. For proper application, mount the applicator so the nozzle is at least 4 ½ feet above ground level and directed out the back of the vehicle. Failure to follow the above directions may result in reduced effectiveness. MULTICIDE® Fogging Concentrate 2798 may also be diluted with a suitable solvent such as mineral oil and applied by GROUND U.L.V. equipment so long as 1.23 fluid ounces per acre of MULTICIDE® Fogging Concentrate 2798 is not exceeded. Refer to the table on following page for flow rate calculations for diluted end-use formulations of MULTICIDE® Fogging Concentrate 2798.

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Use the following tables to calculate application rates:

Pounds a.i./Acre			MFC 2798 Fl. oz./Acre
Prallethrin	Sumithrin®	PBO	
0.00072	0.0036	0.0036	1.23
0.00044	0.0022	0.0022	0.75
0.00036	0.0018	0.0018	0.61
0.00024	0.0012	0.0012	0.41

Flow Rates in fluid oz./minute at truck speeds of:			
5 MPH	10 MPH	15 MPH	20 MPH
3.7	7.4	11.2	14.9
2.3	4.6	6.8	9.1
1.9	3.7	5.6	7.4
1.2	2.5	3.7	5.0

MULTICIDE® Fogging Concentrate 2798 may also be applied undiluted with non-thermal, portable, motorized backpack equipment adjusted to deliver ULV particles of 50 to 100 microns VMD. Use 0.41 to 1.23 fl.oz. of the undiluted spray per acre (equal to 0.0012 to 0.0036 lb. sumithrin/acre) as a 50 ft (15.2 m) swath while walking at a speed of 2 mph (3.2 kph).

MULTICIDE® Fogging Concentrate 2798 may be applied for urban ULV mosquito control. For control of resting or flying adult mosquitoes, biting flies and biting midges in areas such as utility tunnels, sewers, storm drains and catch basins, pipe chases, underground basements, underground passages, parking decks, crawl spaces or uninhabited buildings. MULTICIDE® Fogging Concentrate 2798 may be applied using mechanical foggers, hand-held or truck mounted ULV equipment, non-thermal foggers or other spray equipment suitable for this application. Apply MULTICIDE® Fogging Concentrate 2798 at rates up to but not exceeding 0.0036 pounds sumithrin, 0.0036 pounds of piperonyl butoxide, or 0.00072 pounds of prallethrin per acre in a 7-day period (not to exceed 0.094 pounds Sumithrin, 0.094 pounds of piperonyl butoxide, or 0.019 pounds of prallethrin per acre in any site in any year).

AERIAL APPLICATION: Application shall be made when ground wind speed is equal to or greater than 1 mph. Applications shall be made when surface temperature exceeds 50°F. Application shall be made at 75 feet to 300 feet for rotary aircraft and 100 to 300 feet for fixed-wing aircraft. Flow rate and swath width shall be set so as to achieve 0.41 to 1.23 fluid ounces of MULTICIDE® Fogging Concentrate 2798 per acre. Appropriate spray systems include rotary atomizers, flat fan, high pressure, and high pressure impaction nozzles characterized and oriented to achieve the droplet characteristics above.

MULTICIDE® Fogging Concentrate 2798 may also be diluted with a suitable solvent such as mineral oil and applied by aerial U.L.V. equipment so long as 1.23 fluid ounces per acre of MULTICIDE® Fogging Concentrate 2798 is not exceeded. Refer to the table on following page for flow rate calculations for diluted end-use formulations of MULTICIDE® Fogging Concentrate 2798.

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Dilution Calculations

For a 4% Sumithrin product, dilute 1 gallon MULTICIDE® Fogging Concentrate 2798 with 0.25 gallon oil. Finished spray contains 0.3 lbs Sumithrin & PBO and 0.06 pounds Prallethrin per gallon.

Dosage Description	Pounds a.i. /Acre			Fluid oz. finished spray/ Acre	Flow Rates in fluid oz./minute at truck speeds of:			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	1.54	4.7	9.3	14.0	18.6
Recommended	0.00044	0.0022	0.0022	0.94	2.8	5.7	8.5	11.4
Light Population	0.00036	0.0018	0.0018	0.77	2.3	4.7	7.0	9.3
	0.00024	0.0012	0.0012	0.51	1.6	3.1	4.7	6.2

For a 2.5% Sumithrin product, dilute 1 gallon MULTICIDE® Fogging Concentrate 2798 with 1 gallon oil. Finished spray contains 0.1875 lbs Sumithrin & PBO and 0.038 pounds Prallethrin per gallon

Dosage Description	Pounds a.i. /Acre			Fluid oz. Finished spray/Acre	Flow Rates in fluid oz./minute at truck speeds of:			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	2.46	7.4	14.9	22.3	29.8
Recommended	0.00044	0.0022	0.0022	1.50	4.6	9.1	13.7	18.2
Light Population	0.00036	0.0018	0.0018	1.23	3.7	7.4	11.2	14.9
	0.00024	0.0012	0.0012	0.82	2.5	5.0	7.4	9.9

For a 2% Sumithrin product, dilute 1 gallon MULTICIDE® Fogging Concentrate 2798 with 1.5 gallons oil. Finished spray contains 0.15 lbs Sumithrin & PBO and 0.03 pounds Prallethrin per gallon

Dosage Description	Pounds a.i. /Acre			Fluid oz. Finished spray/Acre	Flow Rates in fluid oz./minute at truck speeds of:			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	3.07	9.3	18.6	27.9	37.2
Recommended	0.00044	0.0022	0.0022	1.88	5.7	11.4	17.1	22.8
Light Population	0.00036	0.0018	0.0018	1.54	4.7	9.3	14.0	18.6
	0.00024	0.0012	0.0012	1.02	3.1	6.2	9.3	12.4

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Store in a cool, dry place. Keep container closed.

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

CONTAINER DISPOSAL [For nonrefillable containers]:

Nonrefillable container. Do not reuse or refill this container.

[For containers of 5 gallons or less:]

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a rinse tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For containers over 5 gallons:]

[Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank. Fill the container ¼ full with mineral oil. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.] Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER DISPOSAL [For refillable containers]:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. 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 with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.