

1021-1795

7/31/2012

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 31, 2012

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

**Subject**      **Amended Labeling, Consolidation of SALs Dated February 16, 2012 & March 14, 2012 and  
Notification Dated April 1, 2012  
MGK® MULTICIDE® Fogging Concentrate 2798, EPA Reg No 1021-1795  
Your Submission Dated June 13, 2012**

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](mailto:Rodia.Carmen@epa.gov)

Sincerely Yours,

*For* A handwritten signature in black ink, appearing to read "Richard J Gebken".

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

Enclosure  
001021-01795 D467327

Label stamped Accepted

# MULTICIDE® Fogging Concentrate

## 2798

[ ]denotes alternate language

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

[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]

#### 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	5 00%
* OTHER INGREDIENTS	89 00%
	100 00%

(butylcarbityl) (6 propylpiperonyl) ether and related compounds

\* Contains petroleum distillate

Contains 0 075 pounds of Prallethrin/Gallon 0 375 pounds of Sumithrin®/Gallon and 0 375 pounds of Piperonyl Butoxide (PBO)/Gallon

MULTICIDE®  
Sumithrin™

Registered trademark of McLaughlin Gormley King Company  
Trademark of Sumitomo Company Ltd

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	
IF SWALLOWED	<p>Immediately call a poison control center or doctor</p> <ul style="list-style-type: none"><li>Do not induce vomiting unless told to do so by a poison control center or a doctor</li><li>Do not give any liquid to the person</li><li>Do not give anything by mouth to an unconscious person</li></ul>
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

ACCEPTED

July 31, 2012  
Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under

EPA Reg No 1021-1795

EPA Est No 1021 MN 2

## 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

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers loaders applicators and other handlers must wear the following

long sleeve shirt  
long pants  
shoes and socks

See engineering controls for additional requirements

### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate Do not reuse them

### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating drinking chewing gum using tobacco or using the toilet Users should remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing Users should remove PPE immediately after handling this product As soon as possible wash thoroughly and change into clean clothing

### ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(6)]

Human flagging is prohibited Flagging to support aerial applications is limited to use of the Global Positioning System (GPS) or mechanical flaggers

### ENVIRONMENTAL HAZARDS

This pesticide is highly 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

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

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

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

### USE RESTRICTIONS

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

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

IN FLORIDA Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services

Do not treat a site with more than 0.0036 lbs of each a.i. Sumithrin and piperonyl butoxide (0.00072 lbs prallethrin) per acre in a twenty four (24) hour period. Do not exceed 0.1 lb of Sumithrin or piperonyl butoxide or 0.02 lb prallethrin per acre in any site in one year. 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.

NOTE: When rotating products with other insecticides containing piperonyl butoxide, do not exceed 2 lbs PBO per acre per year.

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

Not for use in outdoor residential misting systems. Not for use in metered release systems.

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

#### USE INFORMATION

MULTICIDE® Fogging Concentrate 2798 is approved for application as a thermal aerosol and as an Ultra Low Volume (ULV) nonthermal aerosol (cold fog) 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 wind speed is greater than or equal to 1 mph. All types of applications should be conducted at temperatures above 50 °F.

#### SPRAY DROPLET SIZE DETERMINATION

Ground based, wide area mosquito abatement 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 Equipment, wide area mosquito abatement 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. 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 dilution tables on this label for flow rate calculations for diluted end use formulations of MULTICIDE® Fogging Concentrate 2798.

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 with non thermal portable motorized backpack equipment adjusted to deliver ULV particles of less than 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) Dilute with a suitable mineral oil if dilution is preferred Do not exceed 1.23 fl oz of the undiluted spray per acre Do NOT use portable backpack equipment for application in enclosed spaces

MULTICIDE® Fogging Concentrate 2798 may be applied through truck mounted thermal fogging equipment Do not exceed the maximum rates listed above May be applied at speeds of 5 to 20 mph To reduce oil requirement and sludge buildup in equipment use a 60-100 second viscosity mineral fog oil or other fuel type oil Use a clean well maintained and properly calibrated fogger Do not wet foliage since oil base formulations may be phytotoxic For use with hand carried foggers use same rates of active ingredient per acre and a swath width of 50 ft with a walking speed of 2 mph Fog downwind with the wind at your back Do NOT use hand carried foggers for application in enclosed spaces

#### AERIAL APPLICATION

MULTICIDE® Fogging Concentrate 2798 may be applied at rates of 0.41 to 1.23 fluid ounces of MULTICIDE® Fogging Concentrate 2798 per acre by fixed or rotary aircraft equipped with suitable ULV application equipment Appropriate spray systems include rotary atomizers flat fan high pressure and high pressure impaction nozzles characterized and oriented to achieve the droplet characteristics specified in this label

MULTICIDE® Fogging Concentrate 2798 may also be diluted with a suitable solvent such as mineral oil and applied by aerial ULV equipment so long as 1.23 fluid ounces per acre of MULTICIDE® Fogging Concentrate 2798 is not exceeded Refer to the dilution tables on this label for flow rate calculations for diluted end use formulations of MULTICIDE® Fogging Concentrate 2798

Do not apply by fixed wing aircraft at a height less than 100 feet above the ground or canopy or by helicopter at a height less than 75 feet above the ground or canopy unless specifically approved by the state or tribe based on public health needs

#### 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

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

[Or for Nonrefillable 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 ]

[Or 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 Then offer for recycling if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities 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

[NOTICE To the extent provided by law Seller makes no warranty expressed or implied concerning the use of this product other than as indicated on the label Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions ]