

1021-1795

09/30/2005

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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:
1021-1795

Date of Issuance:
SEP 30 2005

**NOTICE OF PESTICIDE
Registration**

Term of Issuance:
Conditional Registration

Name of Pesticide Product:
Multicide Fogging Concentrate 2798

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
**McLaughlin Gormley King Company
8810 Tenth Avenue North
Minneapolis, MN 55427-4319**

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)(B) since you agreed in your letter dated September 28, 2005 that:

1. You will submit and/or cite all data required for registration 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. You will submit production information (pound or gallons produced) for the fiscal year in which the use is conditionally registered, in accordance with FIFRA section 29. the fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15 following the end of the preceding fiscal year.

The information should be submitted to:

U.S. Environmental Protection Agency
Office of Pesticide Programs (7504C)
Document Processing Desk
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Signature of Approving Official:

Date:

3. You will submit the data listed below, conducted in accordance with the 40 CFR Part 158 test guidelines referred to below:

Title of Study	Guideline Reference Number	Date
Product Performance Data	810.3402	September 30, 2007
Honey Bee Residue on Foliage	850.3030	September 30, 2008
Acute Estuarine Marine Shrimp (TEP)	72.3 (f)	September 30, 2008
Seed Emergence and Vegetative Vigor	122.1 (a&b)	September 30, 2008
Aquatic Plant Growth	122.2	September 30, 2008

You will submit a protocol prior to conducting the Product Performance data for Agency review and approval.

4. You will make the following label changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 1021-1795"

b. Under Environmental Hazards make the following changes:

(1). In the first paragraph add "and aquatic invertebrates" to the end of the second sentence

(2). In the first paragraph delete "permanent" in the beginning of the third sentence. This qualifier already appears in parenthesis.

(3). In the second paragraph delete "or for local control (such asetc)" of day biting mosquitoes". This is not an emergency exception that was listed in the PR Notice 2005-1.

c. Since sumithrin does not have any food additive or crop tolerances add the following restrictions under directions for use:

(1). Do not apply to or allow this pesticide to drift onto cropland, pastureland, poultry ranges, rice or livestock.

(2). Do not apply to or allow spray treatment to drift onto potable water.

d. On the previous draft label you proposed a spray interval of 7 days (except under high insect pressure) and did not provide the number of applications per year. This interval was used in our risk assessment plus a maximum of 26 applications a year at 0.0008lb/A per acre. Therefore under directions for use change 24 hrs to 7 days and modify the lbs prallethrin per acre to reflect 26 applications. Use of the product more frequently is already covered under the public and or animal health emergency use provisions.

e. Revise the text under Spray Droplet Size Determination to read as follows:

“Ground-based application. Spray equipment must be adjusted so that the volume median diameter is between 8 and 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 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 ($D_v 0.5 < 60 \mu m$) 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.”

As indicated in the preface to recommendation 5 of the PR Notice the other methods listed for spray droplet size determination are acceptable for checking the consistency of the equipment (i.e., does the droplet size spectrum look the same as it did last month) but is not appropriate for quantitatively defining droplet size.

- f. Under Aerial application change the advisory phrases “should be” to “shall” throughout the paragraph.
- 5. You will submit (3) copies of your final labeling before releasing the product for shipment.

You should note that if you fail to satisfy any of the conditions imposed on this registration. e.g., you fail to submit the required data by the specified deadlines or the data submitted were not generated in accordance with the applicable test guidelines, EPA may issue notice to cancel this use under FIFRA 6(e).

A stamped copy of your product label is attached.

Sincerely,

George T. LaRocca
Product Manager (13)
Registration Division (7505C)
Insecticide Branch

Enclosure

ACCEPTED
with COMMENTS
In EPA Letter Dated:

SEP 30 2005

MULTICIDE® Fogging Concentrate 2798

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
EPA Reg. No. 1021-1795

MGK®

McLAUGHLIN
GORMLEY
KING COMPANY

8810 Tenth Avenue N. / Minneapolis, Minnesota 55427-4372 U.S.A. - Telephone (763) 544-8844

[] 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) (8-propylpiperonyl) ether and 1.00% related compounds
** Contains petroleum distillate

Contains 0.085 pounds of Technical Prallethrin/Gallon, 0.37 pounds of Technical Sumithrin®/Gallon and 0.37 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.
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NOTE TO PHYSICIAN: Contains petroleum distillate - 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 the International Poison Center at 1-888-740-8712.

Net Contents _____

Manufactured by:

Mc LAUGHLIN GORMLEY KING COMPANY
8810 Tenth Avenue North
Minneapolis, MN 55427

EPA Reg. No. 1021-

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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish. Do not apply over permanent 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 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, or for local control (such as residential yards, parks, campgrounds, etc.) of day biting mosquitoes.

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.

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Remove pets, birds, and cover fish aquariums before spraying.

Do not contaminate food, feed or drinking water.

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

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.

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 adulting 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, such as when air temperature inversion is present. Do not apply when wind speeds exceed 10 mph.

Do not treat a site with more than 0.0036 pounds of sumithrin or 0.0008 pounds of prallethrin per acre in a twenty-four hour period. Do not exceed 1.0 pounds of sumithrin or 0.2 pounds of prallethrin per acre in any site in a 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.

SPRAY DROPLET SIZE DETERMINATION: Ground Equipment: Spray equipment must be adjusted so that the volume median diameter (VMD) is 8 to 30 microns and that 90% of the spray is contained in droplets smaller than 50 microns. Aerosol droplet size may be determined using generally acceptable methods such as, but not limited to, A.I.M.S.; PC-DC-III, or Teflon-coated glass slides. Depending on the apparatus used, follow manufacturer's instructions for obtaining droplet measurements. When using coated glass slides, an adequate volume of air should be sampled using, for example, rotating slide impingers. Slides should be examined microscopically and the diameter of the droplets measured in microns. Slides should be scanned until at least 200 droplets have been sized. A spread factor of 0.69 should be used to correct droplet diameters. 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: Spray equipment must be adjusted so that the volume median diameter is less than 60 microns and that 90% of the spray is contained in droplets smaller than 100 microns. The effects of flight speed and, for non-rotary atomizers, nozzle angle on the droplet size spectrum must be considered. Aerosol droplet size may be determined using generally accepted methods such as Teflon-coated glass slides on rotating impingers, rotor rod, cascade impactors, wind tunnel mounted lasers or other suitable methods. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s), and the rotation speed of the sleeve (for rotary atomizers) 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 1.2 to 7.5 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 4.5 fluid ounces per minute is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are

equivalent to 0.0003 to 0.0008 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 1.24 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.

Pounds a.l./Acre			MFC 2798
Prallethrin	Sumithrin [®]	PBO	Fl. oz./Acre
0.0008	0.0036	0.0036	1.24
0.0005	0.0022	0.0022	0.75
0.0004	0.0018	0.0018	0.62
0.0003	0.0012	0.0012	0.41

Use the following table to calculate application rates:

Flow Rates in fluid oz./minute at truck speeds of:			
5 MPH	10 MPH	15 MPH	20 MPH
3.8	7.5	11.3	15.0
2.3	4.5	6.8	9.1
1.9	3.8	5.6	7.5
1.2	2.5	3.7	5.0

MULTICIDE® Fogging Concentrate 2798 may be applied undiluted with a non-thermal ULV portable "backpack" or hand-held spray unit capable of delivering droplets in the 8 to 30 micron range. Apply at a walking speed of 2 mph, ensuring that maximum application rates are not exceeded.

AERIAL APPLICATION: Aerial application should be made when ground wind speed is 10 mph or less and when thermal activity is low. Applications shall be made when surface temperature exceeds 50°F. Application should be made at an altitude of 50 to 300 feet. If a temperature inversion is present, application should be made at an application height that is below the upper level of the inversion. Flow rate and swath width should be set so as to achieve 0.41 to 1.24 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 1.24 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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MULTICIDE® Fogging Concentrate 2798 (Prallethrin + Sumithrin + PBO) Formulation Dilution Table

Undiluted MULTICIDE® Fogging Concentrate 2798

Dosage Description	Pounds a.i. /Acre			% Conc. *	MFC 2798 Oz./Acre	Flow Rates in fluid oz./minute at truck speeds of:			
	Prallethrin	Sumithrin	PBO			5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.0008	0.0036	0.0036	5.0	1.24	3.8	7.6	11.3	15.0
Recommended	0.0005	0.0022	0.0022	5.0	0.75	2.3	4.5	6.8	9.1
Light Population	0.0004	0.0018	0.0018	5.0	0.62	1.9	3.8	5.8	7.5
	0.0003	0.0012	0.0012	5.0	0.41	1.2	2.5	3.7	5.0

Dilution Calculations

Dosage Description	Pounds a.i. /Acre			% Conc. *	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	0.0008	0.0036	0.0036	4.0	1.55	4.7	9.4	14.1	18.8
Recommended	0.0005	0.0022	0.0022	4.0	0.94	2.8	5.7	8.5	11.4
Light Population	0.0004	0.0018	0.0018	4.0	0.78	2.3	4.7	7.0	9.4
	0.0003	0.0012	0.0012	4.0	0.52	1.6	3.2	4.7	6.3

Dosage Description	Pounds a.i. /Acre			% Conc. *	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	0.0008	0.0036	0.0036	3.0	2.07	6.3	12.5	18.8	25.1
Recommended	0.0005	0.0022	0.0022	3.0	1.25	3.8	7.5	11.4	15.2
Light Population	0.0004	0.0018	0.0018	3.0	1.04	3.1	6.3	9.4	12.5
	0.0003	0.0012	0.0012	3.0	0.69	2.1	4.2	6.3	8.4

Dosage Description	Pounds a.i. /Acre			% Conc. *	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	0.0008	0.0036	0.0036	2.0	3.10	9.4	18.8	28.2	-
Recommended	0.0005	0.0022	0.0022	2.0	1.88	5.7	11.4	17.0	22.7
Light Population	0.0004	0.0018	0.0018	2.0	1.55	4.7	9.4	14.1	18.8
	0.0003	0.0012	0.0012	2.0	1.03	3.1	6.2	9.4	12.5

Dosage Description	Pounds a.i. /Acre			% Conc. *	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	0.0008	0.0036	0.0036	1.0	6.20	18.8	-	-	-
Recommended	0.0005	0.0022	0.0022	1.0	3.80	11.5	23.0	-	-
Light Population	0.0004	0.0018	0.0018	1.0	3.10	9.4	18.8	28.2	-
	0.0003	0.0012	0.0012	1.0	2.07	6.3	12.5	18.8	25.1

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STORAGE AND DISPOSAL

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

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities.

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