

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number
251685

Application for Pesticide - Section I

1. Company/Product Number 27588-2	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Formula F-30 Algae Control	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Diversified Waterscapes Inc. P.O. Box 7814 Laguna Niguel Ca. 92607 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
1. 2. 97

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

1. New Company LOGO
2. More attractive Front Panel Layout
3. Under "How to apply Formula 30" the word "pressure" was changed to "Coarse", since Coarse spraying is the proper way to apply this product.

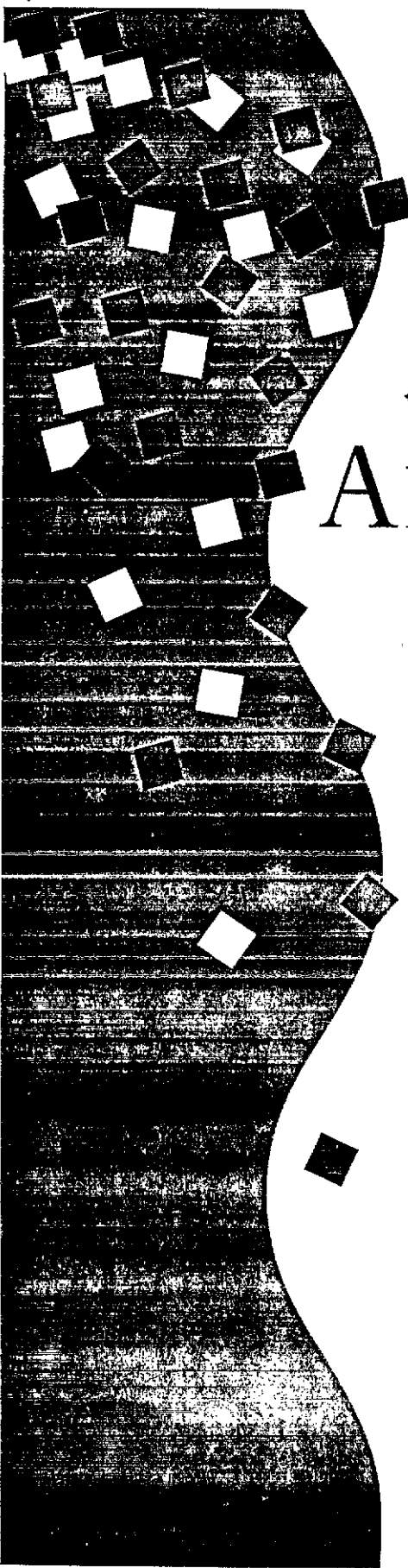
Section - III

BEST AVAILABLE COPY

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Patrick A. Simmsgeiger	Title President	Telephone No. (Include Area Code) 714-363-0532
2. Signature <i>Patrick A. Simmsgeiger</i>		3. Date Application Received (Stamped)
3. Title President		
4. Typed Name Patrick A. Simmsgeiger		
5. Date 11-19-96		



formula F-30[®]

ALGAE CONTROL

NOTIFICATION

E.P.A. Reg. No 27588-2 • E.P.A. Est. No. 27588-CA-01

**FOR USE IN: FIRE PONDS, RESERVOIRS,
ORNAMENTAL LAKES AND PONDS**

ACTIVE INGREDIENTS:

Copper Sulfate Pentahydrate*10.9%

INERT INGREDIENTS:89.1%

TOTAL.....100.0%

*Metallic Copper Equivalent 2.7%

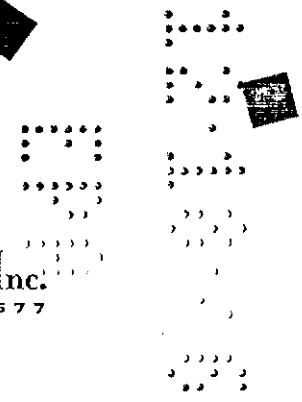
KEEP OUT OF REACH OF CHILDREN

CAUTION: See other cautions on side panel.

NET CONTENTS 1 GAL.



Diversified Waterscapes, Inc.
LAGUNA NIGUEL, CA 92677



Left Panel

Right Panel

3 9 3

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Formula 30 may cause skin sensitization in certain individuals. Do not get on skin, eyes or clothing. In case of contact, wash thoroughly and get medical attention. May be harmful if swallowed. If swallowed, call a doctor.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED:

Drink promptly a large quantity of milk, egg white gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN:

Probable mucosal may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

IF SPLASHED IN EYES:

Immediately flush eyes with plenty of water for at least 15 minutes, and get medical attention.

IF SPILLED ON SKIN:

Remove contaminated clothes and shoes, immediately wash skin with soap and plenty of water and get medical attention.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish. Direct application of copper sulfate to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish.

FISH PRECAUTION:

Treatment of algae can result in oxygen loss from decomposition of dead algae. This loss can cause fish suffocation. Therefore, to minimize this hazard, treat 1/3 to 1/2 of the water area in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow the fish time to move into untreated areas.

NOTE:

Trout and other species of fish may be killed at application rates recommended on this label. However, fish toxicity generally decreases when the hardness of the water increases. Consult your state fish and game agency before applying this product to public waters.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL:

STORAGE:

Keep container closed when not in use. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL:

Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of according to procedures approved by Federal, State or Local Disposal Authorities.

CONTAINER DISPOSAL:

Reseal container and offer for recondition, or triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill or bury in a safe place. Consult Federal, State or Local Disposal Authorities for approved alternative procedures.

GENERAL INFORMATION

Formula 30, when properly applied, will control a broad spectrum of algae. Especially effective results have been obtained against spirogyra, cladophora, vaucheria chara, microcystis, ulathrix and oscillatori.

SURFACE SPRAY/INJECTION ALGAEICIDE APPLICATION

For effective control, proper chemical concentration should be maintained for a minimum of three hours contact time. The application rates in the chart are based on static or minimal flow situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three hour period, chemical may have to be metered in.

- * Identify the algae growth present as one of the following types. Planktonic (suspended), Filamentous (mat-forming), or Chara/Nitella.
- * Determine the surface acreage (1 acre = 43,560 sq.ft.) and average depth of infected area.
- * Refer to the chart to determine gallons of Formula 30 to apply per surface acre.

HOW TO APPLY FORMULA 30

Formula 30 may be diluted with 5 parts water to 1 part product and coarse sprayed from shore. Another effective method is to evenly distribute the product from the back of a moving boat. Generally 1 gallon of Formula 30 will treat about 326,000 gallons of water to 0.4 ppm copper sulfate pentahydrate. Apply Formula 30 when algae growths first appear and the temperature of the water to be treated exceeds 60°F.

HOW TO FIND GALLONS OF FORMULA 30 TO ADD TO WATER

To find Acre-Feet of water in a body of water measure the body of water in feet. Calculate the surface area in square feet, divided by 43,560 (sq.ft./acre) times the average depth in feet.

- 1 Acre Foot of Water = Water measuring 208.7 feet long by 208.7 wide by 1 foot deep.
- 1 Acre-Foot of Water = 43,560 cubic feet = 325,851.6 gal.
- 1 Cubic Foot of Water = 62.4 pounds
- 1 Acre-Foot of Water = (43,560.) (62.4) = 2,720,000. Pounds

DOSAGE TABLE

Gal Formula Per Acre - Foot Water	=	PPM Copper Sulfate Pentahydrate
0.5 gal.	=	.20
1.0 gal.	=	.40
2.0 gal.	=	.81

During periods of heavy growth, repeat application may be needed if algae is still present after two weeks. Repeat the application as directed.

DRIP SYSTEM APPLICATION

FOR USE IN POTABLE WATER AND IRRIGATION CONVEYANCE SYSTEMS

- * Formula 30 should be applied as soon as algae or hydrilla begins to interfere noticeably with normal delivery of water (clogging of lateral headgates, suction screens, weed screens, and siphon tubes). Delaying treatment could perpetuate a problem causing massing and compacting of plants. Heavy infestations and low flow may cause poor chemical distribution resulting in unsatisfactory control. Under these conditions, increasing water flow rate during application, may be necessary.
- * Prior to treatment it is important to accurately determine water flow rates in the absence of weirs, orifices, or similar devices which give accurate water flow measurements. Volume of flow may be estimated by the following formula:

$$\text{Average Width (feet)} \times \text{Average Depth (feet)} \times \text{Velocity* (feet/second)} \times 0.9 = \text{Cubic Feet per Second (C.F.S.)}$$

* Velocity is the time it takes a floating object to travel a given distance. Dividing the distance traveled (feet) by the time (seconds) will yield velocity (feet/seconds). This measurement should be repeated at least three times at the intended application site and then averaged.

* After accurately determining the water flow rate in C.F.S. or gallons/minute, find the corresponding Formula 30 on the chart below:

WATER FLOW RATE		FORMULA 30 DRIP RATE*		
C.F.S.	Gal./Min.	Qts./Hr.	ML/Min	Fl. Oz./Min.
1	450	1	16	0.5
2	900	2	32	1.1
3	1350	3	47	1.6
4	1800	4	63	2.1
5	2250	5	79	2.7

* Calculate the amount of Formula 30 needed to maintain the drip rate for a period of 3 hours by multiplying Qts./Hr. x 3; ml/Min x 180; or Fl. Oz./Min. x 180. Dosage will maintain 1.0 ppm copper concentration in the treated water for the 3 hour period. Introduction of the chemical should be made in the channel at weirs or other turbulence creating structure to promote the dispersion of chemical.

* Pour the required amount of Formula 30 into a drum or tank equipped with a brass needle valve and constructed to maintain a constant drip rate. Readjust accordingly if flow rate changes during the 3 hour period.

* Distance of control obtained down the waterway will vary depending upon density of vegetation growth. Periodic maintenance treatments may be required to maintain seasonal control.

PACKAGING - Formula 30 is packaged in 5-gallon poly-cans and 55-gallon poly-drums. The weight per gallon is approximately 10.5 pounds.

NOTICE - Neither the manufacturer nor the seller makes any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use of this material when such use is contrary to label instructions. Read and follow the label directions carefully.

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