

67690-55

09-08-2011

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

67690-55

Date of Issuance:

SEP - 8 2011

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

SP4041 Algacide

Name and Address of Registrant (include ZIP Code):

Sepro Corporation
11550 North Meridian Street, Suite 600
Carmel, Indiana 46032-4565 Attn. Tyler Koschnick

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 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 section 3(c)(7)(A), provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA section 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.

Page 1 of 2

Signature of Approving Official:

[Handwritten signature of Tony Kish]

Date:

SEP - 8 2011

Tony Kish, Product Manager, Team 22
Fungicide Branch, Registration Division (7504P)

Make the following change to the label:

1. Change the product registration number to "EPA Reg. No. 67690-55".
2. Change the product name "SP4041 Algaecide and water quality enhancer" to "SP4041 Algaecide" on the base label and elsewhere where it appears. The "and water quality enhancer" is considered a heightened efficacy claim that is not acceptable. A revised primary brand name and/or alternate brand names can be added by notification.
3. On page 6, under "Environmental Hazards" delete "in quiescent waters" and end that sentence with "...do not treat more than one-half (1/2) of the water body at one time. Delete the rest of this paragraph from "When 1) susceptible algae...the water body just before "Wait a minimum".
4. On page 8 and elsewhere, change "SP4041" to "SP4041 Algaecide".
5. In Table 2 change "oz/min" to "fl oz/min".
6. On page 12, change "No labeled rate or dose should be exceeded" to "Do not exceed any labeled rate or dose".
7. Submit one copy of the revised final printed label before the product is released for shipment.
8. As a condition of registration, the one-year storage stability (830.6317) and corrosion characteristics (830.6320) study submitted 8/23/2011 is under review and must be found acceptable.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with Comment" is enclosed for your records.

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[Base label for all containers]



SP4041

ALGAECIDE AND WATER QUALITY ENHANCER

ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP - 8 2011

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
67690-55

Active Ingredient:

Copper Sulfate Pentahydrate[†] (CAS# 7758-99-8) 16.2%

Other Ingredients 83.8%

TOTAL 100.0%

[†]Metallic Copper equivalent = 4.1%

KEEP OUT OF REACH OF CHILDREN

CAUTION / CUIDADO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor 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 or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or	

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doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

ENVIRONMENTAL HAZARDS

Only apply to water as specified on the label. If the following treatment and application guidance is not followed, waters treated with this product may be hazardous to aquatic organisms.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application.

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep from freezing. Store only in original container. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Disposal

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Refer to inside of label booklet for additional precautionary information and directions for use.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-XX
FPL021511

EPA Est. No. _____
SPC- _____

SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.

Algaecide and Water Quality Enhancer

Net contents _____
Refillable/Nonrefillable container _____

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[Front of label booklet or front panel, ALL containers]



SP4041

ALGAECIDE AND WATER QUALITY ENHANCER

FOR USE IN AQUATIC SITES INCLUDING: PONDS, LAKES, RESERVOIRS, RIVERS, STREAMS, IRRIGATION AND DRAINAGE CANALS, LATERALS AND DITCHES; INCLUDING POTABLE WATER SOURCES.

There are no water use restrictions during or after application of this product.

Active Ingredient:

Copper Sulfate Pentahydrate[†] (CAS# 7758-99-8) 16.2%

Other Ingredients 83.8%

TOTAL 100.0%

[†]Metallic Copper equivalent = 4.1%

KEEP OUT OF REACH OF CHILDREN CAUTION / CUIDADO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

In case of emergency endangering life or property involving this product, call **INFOTRAC** at 1-800-535-5053.

Refer to the inside of the label booklet for additional precautionary information and Directions for Use including Storage and Disposal.

NOTICE: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-XX
FPL021511

EPA Est. No. _____
SPC-_____

SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.

Algaecide and Water Quality Enhancer

Net contents _____
Refillable/Nonrefillable container _____

[Label booklet text, ALL containers]

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

KEEP OUT OF REACH OF CHILDREN CAUTION / CUIDADO

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters during any single treatment.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor 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 or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053 .	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

For all types of applications, mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeve shirt,
- Long pants,
- Shoes plus socks

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 this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users must:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Only apply to water as specified on the label. If the following treatment and application guidance is not followed, waters treated with this product may be hazardous to aquatic organisms. Treatment of algae can result in oxygen loss from decomposition of dead algae. Under certain conditions, this oxygen loss can cause fish and invertebrate suffocation. To avoid depletion of oxygen due to decaying algae, in quiescent waters do not treat more than one-half ($1/2$) of the water body at one time when 1) susceptible algae mats cover more than one-half ($1/2$) the water body; 2) susceptible macrophytic algae are mature or have grown to the water's surface and cover more than one-half ($1/2$) of the water body; or 3) susceptible phytoplanktonic algae blooms are dense and infest greater than one-half ($1/2$) the water body. Wait a minimum of 14 days between treatments when these conditions exist to allow recovery of oxygen levels. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas.

Certain water conditions including low pH (≤ 6.5), low dissolved organic carbon (DOC) (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L as CaCO_3), increase the potential acute toxicity to non-target aquatic organisms. Do not use in waters containing trout or other fish species that are highly sensitive to copper if the carbonate hardness is less than 50 ppm. Fish toxicity generally decreases when the hardness of water increases. Contact SePRO Corporation for guidance on use in ornamental ponds containing Koi.

Obtain Required Permits: Consult with appropriate state or local pesticide and/or water authorities before applying this product in or around public waters. Permits and posting or treatment notification may be required by state, Tribal, or local public agencies.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Ensure spray drift to non-target susceptible species does not occur.

DO NOT apply SP4041 Algaecide and Water Quality Enhancer in any manner not specifically described in this label. Observe all cautions and limitations on this label and on the labels of products used in combination with SP4041. Keep containers closed to avoid spills and contamination.

If the treated water is to be used as a source of potable water, the metallic copper concentration must not exceed 1.0 ppm.

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep from freezing. Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Disposal

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) 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 $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix 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.

Triple rinse containers too large to shake (capacity $>$ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: 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% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of

purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

IN CASE OF EMERGENCY

In case of large-scale spillage regarding this product, call INFOTRAC at 1-800-535-5053.

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment;
- Your local poison control center (hospital);
- INFOTRAC: 1-800-535-5053.

Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

GENERAL INFORMATION

SP4041 is effective in controlling a broad range of green and blue-green (cyanobacteria) algae, including filamentous, planktonic and macrophytic.

In general, use the lower concentrations/rates in softer water (<50 ppm alkalinity) or when treating species with greater susceptibility to SP4041; use higher concentrations/rates in harder water (>50 ppm alkalinity) and when treating heavier infestations and/or less susceptible species.

Treatment Notes

Performance of SP4041 is enhanced under certain conditions. It is recommended to consult a SePRO Aquatic Specialist for guidance in implementing a treatment program to achieve optimal results. The following apply to the use of SP4041 to achieve optimum effectiveness:

- Treat when growth first begins to appear (if possible) or when algae are actively growing.
- Apply in a manner that will ensure even distribution of SP4041 within the treatment area.
- Use a high-pressure surface spray application to break up dense floating algal mats.
- In heavily infested areas, follow-up applications may be necessary. Re-treat areas if re-growth begins to appear or if seasonal control is desired. Additional applications of SP4041 too soon after prior application may have no effect.
- **It is recommended to design and implement an annual treatment program which includes monitoring algae and basic water quality parameters to optimize nuisance algae and water quality management. Contact SePRO Corporation for assistance in algae identification, treatment prescription and implementation using SP4041 (Note: SePRO Corporation's technical service of algae identification, site monitoring and assessment is referred to as SeSCRIPT* analysis).**

Precautions and Restrictions

- Do not apply an undiluted solution of SP4041 directly to, or otherwise permit it to come into contact with any desirable plants as injury may result. Do not apply in such a way that concentrated SP4041 comes in contact with crops, ornamentals, grass or other desirable plants. Wash spray equipment thoroughly before and after each application.

Spray Drift Management

The following spray drift management requirements are for application methods except for those where the product is injected under the water surface (i.e. sub-surface applications). Surface applications should be made only when there is little or no hazard for spray drift. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator is responsible for considering all these factors when making decisions. Do not conduct a surface spray application when wind is blowing toward desirable susceptible crops or ornamental plants near enough to be injured. Under these conditions, SP4041 may be applied using a sub-surface injection.

Droplet Size

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply as a surface spray at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make surface applications into areas of temperature inversions or stable atmospheric conditions.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. *Additional requirements for aerial applications:* The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the water's surface unless a greater height is required for aircraft safety. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

APPLICATION INFORMATION

Do not exceed a concentration of 1.0 ppm copper during any single application; wait a minimum of 14 days between treatments except for when treating new source water in flowing water sites (refer to *Drip System or Metering Pump Application for Flowing Water Treatments*). (Note: In aquaculture, do not exceed a concentration of 0.4 ppm during any single application when targeting nuisance algae; there are no restrictions on treatment intervals).

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Application Methods and Rates

Surface Spray/Injection Algaecide Application

The application concentrations/rates in Table 1 are based on static or minimal flow situations. Where significant dilution occurs from untreated waters or loss of water, SP4041 may have to be metered in (refer to the *Drip System or Metering Pump Application for Flowing Water Treatments* section of this label).

Identify the algae growth present as one of the following types: planktonic (suspended), filamentous (mat-forming), or macrophytic algae (*Chara/Nitella*). For assistance with algae identification, contact SePRO Corporation.

Determine the surface acreage (1 acre = 43,560 ft²) and average depth of infested area. Refer to chart below to determine gallons of SP4041 to apply per surface acre.

TABLE 1. SP4041 Application Rates			
Algae Type or Species	Dose	Rates	Treatment Comments
	PPM Copper	Gallons per Acre Foot	
Planktonic (Suspended)	0.16-1.0 [†]	1.0 - 6.4	Apply higher rates on heavy blooms and where algae masses are clumped and accumulated.
Filamentous (Mat-forming)	0.16-1.0 [†]	1.0 - 6.4	Apply higher rates on surface mats and species such as <i>Pithophora</i> , <i>Cladophora</i> , <i>Lyngbya</i> , and <i>Hydrodictyon</i> .
Macrophytic (<i>Chara/Nitella</i> / Starry Stonewort)	0.4-1.0	2.5 - 6.4	Apply higher rates on older, established calcified plants. Apply as close to algae growth as possible.

[†] For planktonic and filamentous algae, SP4041 may be applied up to 1.0 ppm when growth conditions require higher rates and for difficult to control species (such as *Hydrodictyon*, *Cladophora* or *Pithophora*).

Application Rate Calculation Example:

The amount of SP4041 to be applied to provide the desired concentration of 0.16 ppm of active ingredient in a 1 acre pond or treatment site with an average depth of 4 feet may be calculated as follows:

1 acre X 4 foot average depth = 4 acre feet

1.0 gallon per acre foot x 4 acre feet = 4 gallons

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For planktonic (suspended) algae and free-floating filamentous algae mats, application rates and techniques should be based on treating to depths where algae are present (e.g. the upper 3 to 4 feet of water). For dense infestations and in certain other situations, it may be necessary to calculate rates based on the depth of known algae infestation (e.g. >4 feet) or require treating the entire water column in the target area.

As a surface or subsurface application, SP4041 may be applied diluted or undiluted, whichever is most suitable to ensure uniform coverage of the area to be treated. Dilution with water may be necessary at the lower application rates. Dilute the required amount of SP4041 with enough water to ensure even distribution in the treated area with the type of equipment being used. For best results, dilute SP4041 in water to provide a minimum spray mix of 20 to 50 gallons per acre; in areas with heavy infestations of filamentous algae, a total tank mix of >50 gallons per acre may be necessary; break up floating algae mats before spraying or while application is being made.

Drip System or Metering Pump Application for Flowing Water Treatments For Use in Potable Water, Canals, Ditches, and Irrigation and Drainage Systems

For optimal control, apply SP4041 as soon as algae begin active growth or interfere noticeably with normal delivery of water (clogging of headgates, suction screens, weed screens, and siphon tubes). Delaying treatment could perpetuate the problem causing massing and compacting of plants. Heavy infestations and low flow may cause poor distribution resulting in unsatisfactory control. Under these conditions repeated applications or 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 waterflow measurements, volume of flow can be estimated by the following formula:

$$\text{Cubic feet per second (cfs)} = \text{average width (feet)} \times \text{average depth (feet)} \times \text{average velocity (feet/second)} \times 0.9$$

After accurately determining the water flow rate in cfs or gallons/minute, find the corresponding SP4041 rate in Table 2 or use the below formula.

$$\text{cfs} \times \text{desired concentration of Cu}^{++} \text{ (ppm)} \times 2.16 = \text{quarts/hour of application}$$

TABLE 2. SP4041 Application Rates For Flowing Water				
Water Flow Rate		PPM Copper	SP4041 Rate	
CFS	Gal/min.		Quart/ hr.	oz/ min.
1	450	0.16 - 1.0	0.3 - 2.1	0.2 - 1.1
2	900	0.16 - 1.0	0.7 - 4.2	0.4 - 2.2
3	1,350	0.16 - 1.0	1.0 - 6.4	0.6 - 3.4
4	1,800	0.16 - 1.0	1.4 - 8.5	0.7 - 4.5
5	2,250	0.16 - 1.0	1.7 - 10.7	0.9 - 5.7
10	4,500	0.16 - 1.0	3.4 - 21.4	1.8 - 11.4
100	45,000	0.16 - 1.0	34.3 - 214.5	18.3 - 114.3

Calculate the amount of SP4041 needed to maintain the drip rate for the desired treatment period (hours or minutes) by multiplying either: **Quarts / hr x number of hours or Fluid ounces / Minute x number of minutes.**

Application Rate Calculation Example:

The amount of SP4041 to be applied to provide the desired concentration of 0.16 ppm of active ingredient in water flowing at 100 CFS with a 3 hour injection may be calculated as follows:

$$\begin{aligned} 34.3 \text{ quarts per hour} \times 3 \text{ hours} &= 103 \text{ quarts} \\ \text{or} \\ 103 \text{ quarts} \div 4 \text{ quarts per gallon} &= 25.75 \text{ gallons} \end{aligned}$$

Lower concentrations may be used on highly susceptible algae species or if longer exposure times are maintained. Introduction of the chemical should be made in the channel at weirs or other turbulence-creating structures to promote the dispersion of the chemical. For longer injection periods, multiply the rate by the desired time in minutes or hours as appropriate.

Use a drum or tank equipped with a valve or other volume control device that can be calibrated to maintain a constant drip rate. Use a stopwatch and appropriate measuring container to set the desired drip rate. Readjust accordingly if the canal flow rate changes during the treatment period. A small pump or other metering device may be used to meter SP4041 into the water more accurately. Application can be made using diluted or undiluted product.

Results can vary depending upon species and density of algae and vegetation, desired distance of control and flow rate, and impact of water quality on efficacy. Periodic maintenance treatments may be required to maintain seasonal control. It is recommended to consult a SePRO Aquatic Specialist to determine optimal use rate, location of treatment stations and treatment period under local conditions.

Tank Mix Directions

SP4041 may be tank mixed with other products to enhance efficacy and plant selectivity provided that the labels do not prohibit such mixing. SP4041 can be tank mixed with herbicides registered for aquatic use to improve efficacy; and to control algae in areas where heavy algae growth may cover target submersed plant species and interfere with herbicide exposure. When tank mixing, read and follow the labeled precautionary statements, directions for use, weeds controlled, and other restrictions for each tank mix product. **Use in accordance with the most restrictive label limitations and precautions of the products used in the tank-mix.** No labeled rate or dose should be exceeded. To ensure compatibility, a jar test is recommended before field application of any tank mix combination. It is recommended to consult with SePRO Corporation for latest tank mix recommendations.

NOTE: Tank mixing or use of SP4041 with any other product which is not specifically and expressly authorized by the label shall be at the exclusive risk of the user, applicator and/or application adviser, to the extent allowed by applicable law.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

WARRANTY DISCLAIMER

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

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