

3008-103

4/15/2010

1 of 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APR 15 2010

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC SUBSTANCES

Teri Muchow
Manager – Regulatory Administration
Osmose, Inc.
980 Ellicott Street
Buffalo, NY 14209

Subject: **CMC 9.0**
EPA Registration Number: 3008-103
Application: March 9, 2010
Receipt Date: March 10, 2010

Dear Ms. Muchow:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

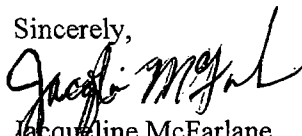
Proposed Amendment

- Addition of mix chart
- Update User Safety Requirements section using enforceable language
- Update to Storage and Disposal section of label in accordance with PR Notice 2007-4

General Comments

A stamped copy of the labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions concerning this letter, please contact me by telephone at 703-308-6416 or email at: campbell-mcfarlane.jacqueline@epa.gov or Heather Garvie by telephone at (703) 308-0034 or email at: garvie.heather@epa.gov

Sincerely,

Jacqueline McFarlane
(Acting) Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)

CMC 9.0

Wood Preservative and Algaecide/Herbicide

For the control of wood damaging fungi and insects

For use in Slow Moving or Quiescent Bodies of Water Including: Golf Course, Ornamental Fish, Irrigation, Industrial and Fire Ponds; Fresh Water Lakes and Fish Hatcheries; Potable Water Reservoirs and Associated Waters (Rivers, Streams, Bays and Coves); and Crop and Non-crop Irrigation Conveyance Systems, (Ditches, Canals, and Laterals)

Areas treated with CMC 9.0 may be used for fishing, swimming, drinking, watering livestock and irrigating crops, turf, putting greens, fairways, and ornamental plants immediately after treatment.

ACTIVE INGREDIENT:

Copper Carbonate (CAS # 12069-69-1)* 15.66%

OTHER INGREDIENTS: 84.34%

TOTAL..... 100.00%

*Metallic Copper Equivalent – 9.00 %
Ethanolamine complex of copper carbonate
Contains 0.924 pounds of elemental copper per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

FIRST AID

IF IN EYES:
Hold eye open and rinse slowly and gently with water for 15 – 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 SWALLOWED:
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 INHALED:
Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth.
Call a poison control center or doctor for further treatment advice.

Have the container or label with you when calling a poison control center or doctor, or going for treatment.

Osmose, Inc.
980 Ellicott Street
Buffalo, NY 14209

EPA EST. NOS. 3008-TN-3008
 3008-SC-3008

EPA REG. NO. 3008-103

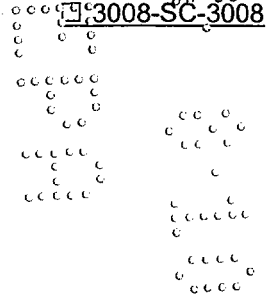
Batch Number: _____

Net Contents: _____

ACCEPTED

APR 15 2010

Under the Federal Insecticide, Fungicide, and Rodenticide, Act as amended, for the pesticide, registered under EPA Reg. No. **3008-103**



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

USER SAFETY RECOMMENDATIONS REQUIREMENTS

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor. Wear appropriate protective clothing and equipment (see below). Remove and wash contaminated clothing before reuse. Users ~~should~~ must wash thoroughly after skin contact and before eating, drinking, using tobacco products, or using restrooms. Users ~~should~~ must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users ~~should~~ must remove personal protective equipment immediately after handling this product. As soon as possible wash thoroughly and change into clean clothing.

PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, applicators and other handlers must wear:

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks
- Goggles

Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection sheet. For cleaning equipment, a chemical-resistant apron must also be worn.

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. Wash the outside of gloves before removing.

Protective clothing must be replaced when it shows signs of significant contamination. Applicator must leave all protective clothing, work shoes or boots, and equipment at the treatment plant. Worn out or severely contaminated protective clothing must be disposed of in a manner approved for pesticide disposal and in accordance with state and federal regulations.

For wood preservative labeling:

SAFE HANDLING PROCEDURES

Do not attempt to use without implementing the necessary safety equipment. Applicators must wear gloves impervious to wood treatment solutions in all situations where dermal contact is expected (i.e., handling freshly treated wood, manually opening cylinder doors, etc.).

Individuals who enter treatment cylinders and other related equipment contaminated with wood treatment solutions must wear protective clothing (including coveralls, jacket, gloves and boots) impervious to wood treatment solutions. In addition, individuals who enter treatment cylinders must wear properly fitting, well-maintained, high-efficiency respirators that are MSHA/NIOSH-approved for ammonia. If the level of ammonia in the plant is unknown or exceeds 35 ppm (STEL) or 25 ppm (ACGIH) or air averaged over an 8-hour work period, air monitoring programs, procedures, and record retention and submittal must be conducted in accordance with OSHA standards.

Applicators must not eat, drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment concentrate or solutions (i.e., manually opening/closing cylinder doors, shoving trams out of the cylinder, mixing chemicals, handling freshly treated wood, etc.).

Wash thoroughly after skin contact and before eating, drinking, using tobacco products, or using restrooms.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates and may contaminate water through runoff. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

For algaecide labeling:

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not apply directly to water except as directed under specific instruction section. Do not contaminate water when disposing of equipment wash water or rinsate. Drift may be hazardous to aquatic organisms in water adjacent to treated areas.

Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than one-half of lake or pond at one time in order to avoid depletion of oxygen levels from decaying vegetation. Allow 10 to 14 days between treatments for oxygen levels to recover. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State and local agency with primary responsibility for regulating pesticides before applying this product to public waters, to determine if a permit is required.

Certain water conditions including low pH (≤ 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms.

Do not treat more than one-half of lake or pond at one time to avoid depletion of oxygen levels due to decaying vegetation.

Potable Water: Do not allow water containing in excess of 1 ppm copper to flow into any water to be used as potable water. Potable water sources treated with copper products may be used as drinking water only after additional potable water treatments.

Terrestrial Plants: Do not apply this product in its concentrated form directly to any crop plants, grass, or ornamental plants as injury may result.)

Use of this product may pose a hazard to certain federally designated endangered species known to occur in specific area of the following counties: Solano (CA); Lawrence, Wayne, Hancock (TN); Lauderdale, Limestone, Madison (AL); Grayson, Smyth, Washington, Lee (VA). Before using this product, refer to the appropriate EPA Bulletin specific to your area. This bulletin identifies areas where the use of this pesticide is prohibited, unless specified otherwise.

DIRECTIONS FOR USE

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

Directions for use as a wood preservative:

GENERAL INFORMATION

Use CMC 9.0 to control all types of fungal decay of wood products – brown white, and soft rot – and wood-eating insects including termites. CMC 9.0 should be used to treat any wood product that will be exposed to conditions favorable to rot, decay, or insect attack both above ground and in ground, or in water. Types of products include lumber, timbers, landscape ties, fence posts, building and utility poles, land, freshwater and marine piling, sea walls, decking, and wood shingles.

Tank mix CMC 9.0 with quaternary ammonium compounds approved for wood treatment. Apply the tank mixed solution by pressure impregnation. Follow the mixing instructions in the appropriate "Solution Mixing Table for CMC 9.0 (2 Component)" for obtaining the desired solution concentration. The percent solution to be used should be based on the retention, in pounds per cubic foot (pcf), specified by the purchaser and the treating process used.

A 3% solution can be used to field coat the cut ends of pressure-treated wood by brush-on application.

Directions for use as an algacide:

GENERAL INFORMATION

CMC 9.0 is effective in controlling a broad range of filamentous, planktonic and branched algae which can occur in slow moving or quiescent bodies of water including golf course, ornamental fish, irrigation, industrial and fire ponds; fresh water lakes and fish hatcheries; potable water reservoirs and associated waters (rivers, streams, bays and coves); and crop and non-crop irrigation conveyance systems, (ditches, canals, and laterals) CMC 9.0 is most effective when applied at the first signs of algal bloom. CMC 9.0 treated water may be used to irrigate crops, turf, fairways, putting greens, and ornamental plants immediately after treatment. CMC 9.0 may be applied by aircraft, ground sprayer or spray boat as a surface spray, as a subsurface application through weighted hoses, in an invert emulsion or mixed with a polymer, as appropriate.

USE PRECAUTIONS: In areas heavily infested with algae or aquatic weeds, or if water temperature is high, treatment can result in oxygen loss from decomposition of dead vegetation. This loss can cause fish suffocation. To minimize this hazard, treat 1/3 to 1/2 of the water area in a single operation. Add only enough CMC 9.0 for the actual area being treated. Wait 14 days before treating the remaining area. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. Consult your State Fish and Game Agency before applying this product to public waters.

CMC 9.0 may be used in combination with Diquat® or Komeen® for more effective control of Hydrilla verticillata and other vascular weeds. CMC 9.0 may also be combined with other herbicides to improve weed control by killing algae which cover aquatic weeds and interfere with herbicide uptake.

NOTE: Undiluted CMC 9.0 or concentrations above 1.0 ppm Cu⁺⁺ may be injurious to crops, grass, ornamentals and other foliage. Do not apply in such a way that the concentrated product comes in contact with crops, ornamentals, grass or desirable plants. Apply only as specified on the label.

leaf 16

ALGAE CONTROL

Free floating algae (planktonic), such as *Anabaena*, *Aphanizomenon*, *Chlorella*, *Dictyosphaerium*, *Euglena*, and *Microcystis* are controlled using 0.2 to 0.5 ppm metallic copper depending upon severity of growth.

Filamentous algae (mat-forming) such as *Cladophora*, *Hydrodictyon*, *Oedogonium* and *Spirogyra* require 0.5 to 1.0 ppm metallic copper depending on growth and intensity. *Chara* and *Phormidium* are difficult to control unless treatment at 0.5 to 1.0 ppm metallic copper is initiated at the first signs of algal bloom.

FOR BEST RESULTS: Apply CMC 9.0 early in the day when conditions are calm. Water temperature should be at least 60° F. Treat when algae first appear. Even distribution of CMC 9.0 in the water will improve algae control; therefore apply in a manner that distributes CMC 9.0 throughout the treated area.

If desired, dilute one volume of CMC 9.0 with 10 to 20 volumes of water before application. To ensure best results, remove large mats of floating algae manually before treatment. A second application 2 weeks after the first may be necessary for heavily infested areas.

COPPER LEVELS REQUIRED FOR CONTROL OF DIFFERENT GENERA OF ALGAE				
Organism	0.2 – 0.5 ppm Copper		0.5 – 1.0 ppm Copper	
Cyanophyceae (Blue-green)	<i>Anabaena</i> <i>Aphanizomenon</i> <i>Cylindrospermum</i> <i>Gloeotrichia</i> <i>Gomphosphaeria</i>	<i>Microcystis</i> <i>Oscillatoria</i> <i>Plectonema</i> <i>Polycystis</i>	<i>Calothrix</i> <i>Nostoc</i>	<i>Phormidium</i> <i>Symploca</i>
Chlorophyceae (Green)	<i>Botryococcus</i> <i>Closterium</i> <i>Coelastrum</i> <i>Draparnaldia</i> <i>Enteromorpha</i> <i>Gloecystis</i>	<i>Hydrodictyon</i> <i>Microspora</i> <i>Spirogyra</i> <i>Tribonema</i> <i>Ulothrix</i> <i>Zygnema</i>	<i>Ankistrodesmus</i> <i>Chara</i> <i>Chlorella</i> <i>Cladophora</i> <i>Crucigenia</i> <i>Desmidium</i> <i>Golenkinia</i>	<i>Nitella</i> <i>Oocystis</i> <i>Palmella</i> <i>Pithophora</i> <i>Scenedesmus</i> <i>Staurastrum</i> <i>Tetraedron</i>
Diatomaceae (Diatoms)	<i>Asterionella</i> <i>Fragilaria</i> <i>Gomphonema</i> <i>Melosira</i> <i>Navicula</i>	<i>Nitzschia</i> <i>Stephanodiscus</i> <i>Synedra</i> <i>Tabellaria</i>	<i>Achnanthes</i> <i>Cymbella</i> <i>Neidium</i>	
Protozoa (Flagellates)	<i>Ceratium</i> <i>Cryptomonas</i> <i>Dinobryon</i> <i>Euglena</i> <i>Glenodinium</i>	<i>Mallomonas</i> <i>Synura</i> <i>Uroglena</i> <i>Volvox</i>	<i>Chlamydomonas</i> <i>Curdorina</i> <i>Haematococcus</i>	<i>Pandorina</i> <i>Peridinium</i>

The genera of algae listed above are commonly found in water of the United States. Use the lower recommended rate in soft water (less than 50 ppm alkalinity) and the higher concentration in hard water (above 50 ppm alkalinity). Always consult your State Fish and Game Agency or other responsible agency before applying this product to public waters.

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APPLICATION INSTRUCTIONS

Use the table below to determine the amount of CMC 9.0 required to achieve the desired copper concentration. For most effective algae control, maintain the desired copper concentration for a minimum of three hours. Rates given below represent concentrations for quiescent or slow moving water. If water flow results in significant dilution of the treated water within three hours of application, it may be necessary to meter CMC 9.0 into the water. (Refer to instructions for Drip System Application below).

APPLICATION RATES FOR QUIESCENT OR SLOW MOVING WATER			
Amount of CMC 9.0 per acre to achieve desired copper content.			
Depth of Water	0.2 ppm Cu	0.5 ppm Cu	1.0 ppm Cu
3 inches	1.18 pints	2.94 pints	5.89 pints
4 inches	1.57 pints	3.92 pints	7.85 pints
5 inches	1.96 pints	4.90 pints	1.23 gallons
6 inches	2.35 pints	5.89 pints	1.47 gallons
7 inches	2.75 pints	6.87 pints	1.72 gallons
8 inches	3.14 pints	7.85 pints	1.96 gallons
12 inches (1 foot)	4.71 pints	1.47 gallons	2.94 gallons
24 inches (2 feet)	1.18 gallons	2.94 gallons	5.89 gallons
36 inches (3 feet)	1.77 gallons	4.41 gallons	8.83 gallons

Summer Application (stratified lakes) – When the average depth exceeds 4 feet and the lake is known to be stratified, it is necessary to treat only the upper 6 feet of water.

Spring/Fall Application (unstratified lake) – Treat the entire body of water remembering to treat 1/3 to 1/2 of the surface area at a time to reduce the possibility of adverse effects on the fish population.

METHODS OF APPLICATION

Surface Application: Spray diluted mixture from shore or boat evenly across the surface of water at rates to achieve a particular copper concentration according to the table above.

Subsurface Application: In deeper water, make a subsurface application of CMC 9.0 at recommended rates through weighted trailing hoses where the greatest concentration of algae is present. Do not drag hoses on the bottom.

Polymer Application: A polymer may be added to CMC 9.0 or to a CMC 9.0/water premix to improve sinking, deposition and retention of the spray. Consult the manufacturer's recommendations regarding the use of a polymer for improved algae control.

Invert Emulsions: CMC 9.0 may be subsurface applied alone or in combination with other herbicides, including Diquat (see below) by injecting the products in an invert emulsion carrier. Invert applications should be made through weighted hoses drug below the surface of the water. Observe all precautions and limitations on the labels of all products used with CMC 9.0.

Aircraft Application: Apply the recommended rate of CMC 9.0 in 20 gallons of total spray solution per surface acre. Add the recommended rates of a drift control or sinking agent to the spray solution. Maintain constant agitation during addition of the polymer and continue throughout the application. When treating moving water, apply the spray solution counter to the flow of water.

Drip System Application (For use in Irrigation Conveyance Systems and Other Moving Water):

For best results, application should be made in anticipation of algae that may interfere with normal flow or delivery of water (obstruction of lateral headgates, screens, pumps, pumping systems and siphon tubes). Delayed treatment may result in matting or compaction of algae mats. Since low flow rates may result in poor chemical distribution and unsatisfactory algae control, it may be necessary to increase water flow rates during treatment.

Determine the water flow rate prior to treatment of the water system. If available, use weirs, orifices or similar devices which give accurate water flow measurements. If these devices are not available, volume of flow may be estimated by the following formula:

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

To determine velocity, measure the time it takes a floating object in the middle of the canal to travel a given distance. Divide the distance (feet) by the time (seconds) for velocity (feet/second). Repeat this procedure at least three times and then calculate the average velocity. Use the average velocity (feet/second) in the formula above to determine the flow rate (C.F.S.).

Once the water flow rate (C.F.S. or Gallons per Minute) has been calculated, find the corresponding drip rate for CMC 9.0 in the table below.

APPLICATION RATES FOR MOVING WATER				
WATER FLOW RATE		<u>CMC 9.0 DRIP RATE</u>		
C.F.S.	Gal./Min.	Qts./Hr.	ML./Min.	Fl. Oz./Min.
1	449	1.0	18	0.5
2	898	1.9	36	1.0
3	1,346	2.9	54	1.6
4	1,795	3.9	71	2.1
5	2,244	4.9	89	2.6

Determining Amount of CMC 9.0 to Use: To calculate the amount of CMC 9.0 needed to maintain the drip rate for three hours, calculate as follows:

$$\text{QTS./HR X 3; or ML/MIN X 180; or FL OZ/MIN X 180.}$$

Thorough mixing is necessary to uniformly disperse the CMC 9.0 in the water; therefore, apply CMC 9.0 in the channel at weirs or other structures that create turbulence or at several points across the flow.

Calibrating for Drip Application (Gravity Feed): Pour the amount of CMC 9.0 needed to treat for three hours (calculated above) into a drum or tank equipped with a brass needle valve designed to maintain a constant drip rate. Open the needle valve and allow CMC 9.0 to drip into a graduated container (measuring cup, graduated cylinder, etc.), using a stop watch to measure the time required to reach the desired volume. Adjust the valve so that CMC 9.0 is dripping at the desired rate. **NOTE:** If the flow rate changes during the 3-hour treatment period, it may be necessary to readjust the needle valve. If power is available, a small pump can be used to meter the CMC 9.0 into the water more accurately.

Distance of algae control from the application point will vary with severity of infestation. Repeat application at a point 3 hours downstream from the previous treatment station. Repeat as necessary to treat entire infested area. It may be necessary to periodically repeat treatments to maintain seasonal control.

HYDRILLA VERTICILLATA CONTROL

Tank mix CMC 9.0 with Diquat to kill algae that cover Hydrilla verticillate and interfere with herbicide uptake. Observe all precautions and limitations on the Komeen and Diquat labels.

APPLICATION INSTRUCTIONS

CMC 9.0 + Komeen Tank Mix: Apply 1.4 to 2.9 gallons of CMC 9.0 plus 3.34 gallons of Komeen per acre-foot of water when water temperature is above 60° F. Use the low rate of CMC 9.0 for light algae infestations or easy-to-control species. Use the high rate of CMC 9.0 for heavy infestations or difficult-to-control species. Apply using an application method which provides uniform coverage of the treated area and delivers the spray solution to the plant surface.

CMC 9.0 + Diquat Tank Mix: Apply 3.2 to 3.5 gallons of CMC 9.0 plus 2 gallons of Diquat per surface acre in bright sunlight when water is above 60° F.

Surface Application: Apply by handgun, spray boat, aircraft or other method of application which provides uniform coverage of the treated area. Combine CMC 9.0 and Diquat with water in a mix tank or use an injection system to make approximately 100 gallons for each surface acre treated. When using a spray boat, apply the mixture through hoses which are dragged as close to the bottom as possible. For best results, do not drag hoses on the bottom. Complete effect of the treatment will be observed in 8 to 12 weeks. In heavily infested areas, a second application may be necessary.

Subsurface Application: Use a boom with trailing hoses fitted with Delavan or Spraying System 80-degree nozzle tips with 06 orifices, or a similar nozzle. Hoses 18 to 24 inches long will apply the material 3 to 6 inches below the water surface. Apply from bow or stern of the boat in strips no more than 20 feet apart.

Bottom Placement: In firm, sandy-bottomed lakes where water is quiescent or slowly moving and Hydrilla has reached the surface, apply in a water carrier, injecting the diluted CMC 9.0 plus Diquat mixture 1 to 2 feet above the bottom using weighted, trailing hoses. Where water is slowly moving through submersed growth, or if suspended silt or muddy water is present, apply in an invert emulsion carrier. Inject the CMC 9.0 plus Diquat mixture in an invert emulsion carrier 1 to 2 feet above the bottom using weighted trailing hoses.

CMC 9.0 + Sonar Tank Mix: Apply 1.6 to 4.0 gallons of CMC 9.0 plus the recommended rate of Sonar A.S. per surface acre. Refer to the Sonar label for appropriate rate recommendations. This combination may be applied as a tank mix or via the use of appropriate metering equipment.

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SWIMMING POOLS

Dilute CMC 9.0 with at least nine parts water and sprinkle around the edge of pool. Add additional CMC 9.0 every two weeks according to directions on chart.

For best results, begin pool maintenance with CMC 9.0 when pool is first filled with water. Add CMC 9.0 according to the size of pool as given in the chart below.

DILUTION CHART FOR SWIMMING POOLS		
Swimming Pool Capacity* (Gallons of Water)	Initial Treatment with CMC 9.0 (ounces)	Treatment Once Every Two Weeks with CMC 9.0 WP
5,000	2 to 5	1.0 to 2.5
10,000	4 to 10	2 to 5
20,000	8 to 20	4 to 10
30,000	12 to 30	6 to 15
40,000	16 to 40	8 to 20
50,000	20 to 50	10 to 20
* How to estimate gallon capacity of your pool: Measure length (L), Width (W), and Average Depth (D) in feet. For square or rectangular pools: $L \times W \times D \times 7.5 = \text{Gallons}$. For circular or elliptical pools: $L \times W \times D \times 5.9 = \text{Gallons}$.		

NOTE: This product is an algestatic rather than an algaecide to some Black Algae. Recommended rates will prevent formation of Black Algae. If Black Algae are already established, triple the initial does.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep from freezing (above 40°F) in a tightly closed container. Store in a cool dry area.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact you State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL/HANDLING: ~~Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.~~ This product is distributed either by bulk tank trucks, bulk tote containers or drums.

Drums:

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. Fill the container ¼ 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 the procedure two more times. Offer for reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Tote Container:

Nonrefillable container. Do not reuse or refill this container. Empty tote container must be returned to a tote collection agent.

Residue Removal – Cleaning container before final disposal is the responsibility of the person disposing of the container. To clean container before final disposal, fill container about 10 percent full with water; agitate container vigorously; discard rinsate according to pesticide disposal instructions; repeat this rinsing procedure two more times. For additional container disposal information, contact product supplier.

WARRANTY STATEMENT

PhibroWood, LLC Osmose, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions nor reasonably foreseeable to seller and buyer assumes all risk of any such use.

PhibroWood, LLC
Ridgefield Park, NJ 07660

For wood preservative label only:

Solution Mixing Table for CMC 9.0 WP and 50% Didecyl Dimethyl Ammonium Chloride (2-Component System)

Solution Strength % Active	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine Following Gallons of		
	CuO	DDAC	CMC 9.0	DDAC (50%)	Water
0.60%	0.400%	0.200%	29.0	4.35	966.6
0.65%	0.433%	0.217%	31.5	4.72	963.8
0.70%	0.467%	0.233%	33.9	5.08	961.0
0.75%	0.500%	0.250%	36.3	5.45	958.2
0.80%	0.533%	0.267%	38.8	5.81	955.4
0.85%	0.567%	0.283%	41.2	6.18	952.6
0.90%	0.600%	0.300%	43.7	6.55	949.8
0.95%	0.633%	0.317%	46.1	6.91	946.9
1.00%	0.667%	0.333%	48.6	7.28	944.1
1.10%	0.733%	0.367%	53.5	8.02	938.5
1.20%	0.800%	0.400%	58.4	8.76	932.8
1.30%	0.867%	0.433%	63.4	9.50	927.1
1.40%	0.933%	0.467%	68.3	10.24	921.4
1.50%	1.000%	0.500%	73.3	10.98	915.7
1.60%	1.067%	0.533%	78.2	11.73	910.0
1.70%	1.133%	0.567%	83.2	12.47	904.3
1.80%	1.200%	0.600%	88.2	13.22	898.6
1.90%	1.267%	0.633%	93.2	13.97	892.8
2.00%	1.333%	0.667%	98.2	14.72	887.0
2.10%	1.400%	0.700%	103.3	15.47	881.3
2.20%	1.467%	0.733%	108.3	16.23	875.5
2.30%	1.533%	0.767%	113.3	16.99	869.7
2.40%	1.600%	0.800%	118.4	17.74	863.9
2.50%	1.667%	0.833%	123.5	18.50	858.0
2.60%	1.733%	0.867%	128.5	19.26	852.2
2.70%	1.800%	0.900%	133.6	20.03	846.4
2.80%	1.867%	0.933%	138.7	20.79	840.5
2.90%	1.933%	0.967%	143.8	21.56	834.6
3.00%	2.000%	1.000%	149.0	22.32	828.7
3.10%	2.067%	1.033%	154.1	23.09	822.8
3.20%	2.133%	1.067%	159.2	23.86	816.9
3.30%	2.200%	1.100%	164.4	24.64	811.0
3.40%	2.267%	1.133%	169.6	25.41	805.0
3.50%	2.333%	1.167%	174.7	26.19	799.1
3.60%	2.400%	1.200%	179.9	26.96	793.1
3.70%	2.467%	1.233%	185.1	27.74	787.1
3.80%	2.533%	1.267%	190.3	28.53	781.1
3.90%	2.600%	1.300%	195.6	29.31	775.1

Solution Mixing Table for CMC 9.0 WP and 80% Didecyl Dimethyl Ammonium Chloride (2-Component System)

Solution Strength % Active	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine Following Gallons of		
	CuO	DDAC	CMC 9.0	DDAC (80%)	Water
0.60%	0.400%	0.200%	29.0	2.81	968.2
0.65%	0.433%	0.217%	31.5	3.04	965.5
0.70%	0.467%	0.233%	33.9	3.28	962.8
0.75%	0.500%	0.250%	36.3	3.52	960.1
0.80%	0.533%	0.267%	38.8	3.75	957.5
0.85%	0.567%	0.283%	41.2	3.99	954.8
0.90%	0.600%	0.300%	43.7	4.23	952.1
0.95%	0.633%	0.317%	46.1	4.46	949.4
1.00%	0.667%	0.333%	48.6	4.70	946.7
1.10%	0.733%	0.367%	53.5	5.18	941.3
1.20%	0.800%	0.400%	58.4	5.65	935.9
1.30%	0.867%	0.433%	63.4	6.13	930.5
1.40%	0.933%	0.467%	68.3	6.61	925.1
1.50%	1.000%	0.500%	73.3	7.09	919.6
1.60%	1.067%	0.533%	78.3	7.57	914.2
1.70%	1.133%	0.567%	83.2	8.05	908.7
1.80%	1.200%	0.600%	88.2	8.53	903.2
1.90%	1.267%	0.633%	93.2	9.02	897.8
2.00%	1.333%	0.667%	98.2	9.50	892.3
2.10%	1.400%	0.700%	103.3	9.99	886.7
2.20%	1.467%	0.733%	108.3	10.48	881.2
2.30%	1.533%	0.767%	113.3	10.97	875.7
2.40%	1.600%	0.800%	118.4	11.45	870.1
2.50%	1.667%	0.833%	123.5	11.94	864.6
2.60%	1.733%	0.867%	128.5	12.44	859.0
2.70%	1.800%	0.900%	133.6	12.93	853.4
2.80%	1.867%	0.933%	138.7	13.42	847.8
2.90%	1.933%	0.967%	143.9	13.92	842.2
3.00%	2.000%	1.000%	149.0	14.41	836.6
3.10%	2.067%	1.033%	154.1	14.91	831.0
3.20%	2.133%	1.067%	159.3	15.41	825.3
3.30%	2.200%	1.100%	164.4	15.91	819.7
3.40%	2.267%	1.133%	169.6	16.41	814.0
3.50%	2.333%	1.167%	174.8	16.91	808.3
3.60%	2.400%	1.200%	180.0	17.41	802.6
3.70%	2.467%	1.233%	185.2	17.91	796.9
3.80%	2.533%	1.267%	190.4	18.42	791.2
3.90%	2.600%	1.300%	195.6	18.92	785.5

Solution Mixing Table for CMC 9.0 WP and 50% Alkyl Dimethyl Benzyl Ammonium Chloride (2-Component System)

Solution Strength % Active	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine Following Gallons of		
	CuO	ADBAC	CMC 9.0	ADBAC (50%)	Water
0.60%	0.400%	0.200%	29.0	4.09	966.9
0.65%	0.433%	0.217%	31.5	4.43	964.1
0.70%	0.467%	0.233%	33.9	4.78	961.3
0.75%	0.500%	0.250%	36.4	5.12	958.5
0.80%	0.533%	0.267%	38.8	5.47	955.7
0.85%	0.567%	0.283%	41.3	5.81	952.9
0.90%	0.600%	0.300%	43.7	6.16	950.1
0.95%	0.633%	0.317%	46.2	6.50	947.3
1.00%	0.667%	0.333%	48.6	6.85	944.5
1.10%	0.733%	0.367%	53.5	7.54	938.9
1.20%	0.800%	0.400%	58.5	8.23	933.3
1.30%	0.867%	0.433%	63.4	8.93	927.7
1.40%	0.933%	0.467%	68.4	9.63	922.0
1.50%	1.000%	0.500%	73.3	10.33	916.3
1.60%	1.067%	0.533%	78.3	11.03	910.7
1.70%	1.133%	0.567%	83.3	11.73	905.0
1.80%	1.200%	0.600%	88.3	12.43	899.3
1.90%	1.267%	0.633%	93.3	13.14	893.6
2.00%	1.333%	0.667%	98.3	13.85	887.8
2.10%	1.400%	0.700%	103.3	14.56	882.1
2.20%	1.467%	0.733%	108.4	15.27	876.3
2.30%	1.533%	0.767%	113.4	15.98	870.6
2.40%	1.600%	0.800%	118.5	16.69	864.8
2.50%	1.667%	0.833%	123.6	17.41	859.0
2.60%	1.733%	0.867%	128.7	18.12	853.2
2.70%	1.800%	0.900%	133.8	18.84	847.4
2.80%	1.867%	0.933%	138.9	19.56	841.5
2.90%	1.933%	0.967%	144.0	20.28	835.7
3.00%	2.000%	1.000%	149.2	21.01	829.8
3.10%	2.067%	1.033%	154.3	21.73	824.0
3.20%	2.133%	1.067%	159.5	22.46	818.1
3.30%	2.200%	1.100%	164.6	23.19	812.2
3.40%	2.267%	1.133%	169.8	23.92	806.3
3.50%	2.333%	1.167%	175.0	24.65	800.3
3.60%	2.400%	1.200%	180.2	25.38	794.4
3.70%	2.467%	1.233%	185.4	26.12	788.5
3.80%	2.533%	1.267%	190.7	26.85	782.5
3.90%	2.600%	1.300%	195.9	27.59	776.5

**Solution Mixing Table for CMC 9.0 Wood Preservative and 50% Didecyl Dimethyl Ammonium Carbonate (2-Component System)
Copper/Quat 2:1 Ratio**

Solution Strength % Active	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine Following Gallons of		
	CuO	DDACarbonate	CMC 9.0	DDACarbonate (50%)	Water
0.60%	0.400%	0.200%	29.0	4.17	966.8
0.65%	0.433%	0.217%	31.5	4.52	964.0
0.70%	0.467%	0.233%	33.9	4.87	961.2
0.75%	0.500%	0.250%	36.4	5.22	958.4
0.80%	0.533%	0.267%	38.8	5.57	955.6
0.85%	0.567%	0.283%	41.2	5.92	952.8
0.90%	0.600%	0.300%	43.7	6.27	950.0
0.95%	0.633%	0.317%	46.2	6.62	947.2
1.00%	0.667%	0.333%	48.6	6.98	944.4
1.10%	0.733%	0.367%	53.5	7.68	938.8
1.20%	0.800%	0.400%	58.5	8.39	933.2
1.30%	0.867%	0.433%	63.4	9.10	927.5
1.40%	0.933%	0.467%	68.3	9.81	921.8
1.50%	1.000%	0.500%	73.3	10.52	916.2
1.60%	1.067%	0.533%	78.3	11.24	910.5
1.70%	1.133%	0.567%	83.3	11.95	904.8
1.80%	1.200%	0.600%	88.3	12.67	899.1
1.90%	1.267%	0.633%	93.3	13.39	893.3
2.00%	1.333%	0.667%	98.3	14.11	887.6
2.10%	1.400%	0.700%	103.3	14.83	881.8
2.20%	1.467%	0.733%	108.4	15.56	876.1
2.30%	1.533%	0.767%	113.4	16.28	870.3
2.40%	1.600%	0.800%	118.5	17.01	864.5
2.50%	1.667%	0.833%	123.5	17.74	858.7
2.60%	1.733%	0.867%	128.6	18.47	852.9
2.70%	1.800%	0.900%	133.7	19.20	847.1
2.80%	1.867%	0.933%	138.8	19.93	841.2
2.90%	1.933%	0.967%	144.0	20.67	835.4
3.00%	2.000%	1.000%	149.1	21.40	829.5
3.10%	2.067%	1.033%	154.2	22.14	823.6
3.20%	2.133%	1.067%	159.4	22.88	817.7
3.30%	2.200%	1.100%	164.6	23.62	811.8
3.40%	2.267%	1.133%	169.7	24.37	805.9
3.50%	2.333%	1.167%	174.9	25.11	800.0
3.60%	2.400%	1.200%	180.1	25.86	794.0
3.70%	2.467%	1.233%	185.3	26.61	788.1
3.80%	2.533%	1.267%	190.6	27.36	782.1
3.90%	2.600%	1.300%	195.8	28.11	776.1

**Mixing Table for CMC 9.0 Wood Preservative and 50% Didecyl Dimethyl Ammonium Carbonate (2-Component System)
Copper/Quat 1:1 Ratio**

Solution Strength, % Active	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine following Gallons of		
	CuO	DDACarbonate	CMC 9.0	DDACarbonate (50%)	Water
0.30%	0.150	0.150	10.49	3.13	986.4
0.40%	0.200	0.200	14.00	4.18	981.8
0.50%	0.250	0.250	17.52	5.23	977.3
0.60%	0.300	0.300	21.04	6.28	972.7
0.70%	0.350	0.350	24.57	7.34	968.1
0.80%	0.400	0.400	28.11	8.39	963.5
0.90%	0.450	0.450	31.65	9.45	958.9
1.00%	0.500	0.500	35.20	10.51	954.3
1.10%	0.550	0.550	38.75	11.57	949.7
1.20%	0.600	0.600	42.31	12.63	945.1
1.30%	0.650	0.650	45.88	13.70	940.4
1.40%	0.700	0.700	49.46	14.77	935.8
1.50%	0.750	0.750	53.04	15.83	931.1
1.60%	0.800	0.800	56.63	16.91	926.5
1.70%	0.850	0.850	60.22	17.98	921.8
1.80%	0.900	0.900	63.82	19.05	917.1
1.90%	0.950	0.950	67.43	20.13	912.4
2.00%	1.000	1.000	71.04	21.21	907.7
2.10%	1.050	1.050	74.67	22.29	903.0
2.20%	1.100	1.100	78.29	23.38	898.3
2.30%	1.150	1.150	81.93	24.46	893.6
2.40%	1.200	1.200	85.57	25.55	888.9
2.50%	1.250	1.250	89.22	26.64	884.1
2.60%	1.300	1.300	92.87	27.73	879.4
2.70%	1.350	1.350	96.54	28.82	874.6
2.80%	1.400	1.400	100.20	29.92	869.9
2.90%	1.450	1.450	103.88	31.01	865.1
3.00%	1.500	1.500	107.56	32.11	860.3
3.10%	1.550	1.550	111.25	33.21	855.5
3.20%	1.600	1.600	114.95	34.32	850.7
3.30%	1.650	1.650	118.65	35.42	845.9
3.40%	1.700	1.700	122.36	36.53	841.1
3.50%	1.750	1.750	126.08	37.64	836.3
3.60%	1.800	1.800	129.80	38.75	831.4
3.70%	1.850	1.850	133.53	39.87	826.6
3.80%	1.900	1.900	137.27	40.98	821.7
3.90%	1.950	1.950	141.02	42.10	816.9