



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 27, 2017

Lisa Amadio
Registration Manager
Mason Chemical company
723 W. Algonquin Road
Arlington Heights, IL 60005

Subject: Label and CSF Amendment – Update label language and CSFs
Product Name: MAQUAT® MC1412-10-W
EPA Registration Number: 10324-43
Application Date: October 20, 2016
Decision Number: 522939

Dear Ms. Amadio:

The amended label and CSF(s) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 10/20/2016
- Alternate CSF 2 dated 10/20/2016

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false

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or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Emilia Oiguenblik by phone at 703 347 0199, or via email at Oiguenblik.emilia@epa.gov or Eric Miederhoff by phone at 703 347 8028, or via email at Miederhoff.eric@epa.gov

Sincerely,



Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Stamped label

MAQUAT[®] MC1412-10-W

(Note to Reviewer: Marketing claims may be used on the front panel.)

ACTIVE INGREDIENTS:

Alkyl (50%C₁₄, 40%C₁₂, 10%C₁₆)
dimethyl benzyl ammonium chloride 10.00%

OTHER INGREDIENTS: 90.00%

TOTAL: 100.00%

{Weight Approx. 8.28 lbs./gal.}

**KEEP OUT OF REACH OF CHILDREN
DANGER {PELIGRO}**

{See [{left} {back} {side} {right} {insert} {panel} {of label} {below}] for {additional} {precautionary statements}{and}{or}{first aid}}.

(Note to Reviewer: First Aid may only appear on different area of the container label if the Front Panel is less than 12 square inches in total.)

FIRST AID

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IF SWALLOWED: 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. Call a poison control center or doctor immediately for treatment advice.

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, if possible.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

{For [{chemical} {and} {or} {medical} {and} {or} {environmental}] emergencies, call {insert name and/or number of emergency contact} {hours of operation} {24 hours a day} {7 days a week}}.



{See {additional} {sheet} {insert} {inside} {outer container} for {other} {directions for use} {information} {claims} {organisms}.}

Net Contents:
{Batch} {Lot} No {Manufacturing Date}:
{Product of USA} {Made in the USA}

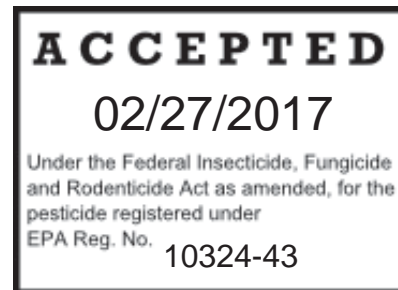


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(Note to Reviewer: The Table of Contents will not be on any label. This is for our customer's reference only.)

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MARKETING CLAIMS

(Note to Reviewer: Marketing text is considered optional. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.)

{LOCATIONS/SURFACES}

(Note to Reviewer: The locations/surfaces have been grouped for space purposes only; they can be used individually or grouped together in any order however at least **one** location/surface must appear on the label. In the case where one or more location/surface is chosen, an "and" "&" "or" may be used to link locations/surfaces.)

This product is for use in (insert location)
For use {in} {on} (insert location/surface).

{LOCATIONS}

- Air washers
- Auxiliary water systems
- Commercial recirculating cooling water towers
- Drilling, completion and workover fluids systems
- Gas production and transmission pipelines and systems
- Gas storage wells and systems
- Hydrotesting facilities
- Industrial {and/or} {commercial} recirculating cooling towers.
- Industrial scrubbing systems
- Oil field water flood systems/salt water disposal {and fracturing fluid systems}
- Oil field injection and waste water
- Once through fresh water cooling systems
- Once through freshwater systems
- Packer fluid systems
- Pipeline pigging and scraping operations
- Recirculating water systems
- Retort water systems
- Waste water systems
- Water cooling systems

- Lumber yards
- Paper manufacturing
- Pulp and paper mills {water process systems}
- Wood processing facilities

- Paper manufacturing
- Pulp and paper mills {water process systems}

{SURFACES}

- Paper and paperboard
- Processed wood
- {Construction products such as} lumber, construction timbers, millwork, posts, decking, wood applications, wood shingles, concrete, sheetrock, wallboard, block and steel

WATER TREATMENT MARKETING CLAIMS (Not for use in CA.)

(Note to Reviewer: *The following marketing claims may be used with the prefix “This product” or “This product is {a} {an}”.*)

- Algaecide
- Aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, industrial and commercial cooling towers, air washers, dairy sweetwater systems, hydrostatic sterilizers and retorts, pasteurizers, warmers, and industrial water scrubbing systems.
- Aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, industrial and commercial cooling towers, influent systems such as flow through filters and lagoons, industrial water scrubbing systems and brewery pasteurizers.
- Aids in the control of bacterial, fungal and algal slimes in retorts water systems.
- A water treatment microbiocide for industrial and/or commercial recirculating cooling water towers, retort water systems and oil field flood/salt water disposal systems and fracturing fluids.
- A water treatment microbiocide for retort water systems.
- A microbiocide for use in controlling sulfate-reducing bacteria and slime forming bacteria in oil well drilling, oil field processing applications, oil field water systems, oil and gas productions and transmission pipelines and systems, and gas storage fields and equipment; such as steam-injection water holding tanks, flood water, injection water, holding pond water, disposal-well water, water holding tanks, fuel storage tanks and related refinery and oil field closed systems, industrial recirculating water handling systems.
- A microbiocide for use in controlling slime forming bacteria, sulfate-reducing bacteria (SRB) and fungi (yeast and molds) and algae in air washers and industrial scrubbing systems, process water systems including those that contain reverse osmosis membranes and in service water and auxiliary systems and heat transfer systems and in wastewater systems including wastewater sludge and holding tanks, and in paper mills and paper mill process water systems and water based coatings for paper and paperboard.
- Controls algae and algal slime growth in industrial and/or commercial recirculating cooling water towers and once through freshwater cooling systems.
- Effective against the growth of algae.
- For control of algae, algal, fungal and bacterial slimes in recirculating water systems, auxiliary water and waste water systems and water cooling systems, oil field water flood systems/salt water disposal systems.
- For control of mollusks in once through [{freshwater cooling systems} {and} {sea water cooling systems}]
- Has been designed specifically for control of sulfate-reducing bacteria that contribute to souring, the production of sulfide, and abiotic corrosion in water cooling systems, paper mill process water systems, oil field systems, gas production and transmission pipelines and systems.
- Helps inhibit the growth of unsightly algae.
- Is a microbiocide that helps clean and loosen slime debris from cooling and flooding system surfaces.
- Is a water treatment microbiocide that will control algae and bacterial slimes found in recirculating cooling tower waters.
- Kills and prevents algae.
- The residual effectiveness of this algaecide tends to stabilize the total chemical treatment system.
- This product is effective for the control of odor-forming and slime-forming bacterial, fungi and algae in auxiliary service water systems such as fire protection systems and pump or screen bays, waste water systems such as storage tanks, storage piles, associated piping, setting ponds or lagoons, transport spillways or canals and disposal wells.
- This product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations.
- To control algae and bacterial slimes, use this water treatment microbiocide as directed.

PULP AND PAPER MILL MARKETING CLAIMS (Not for use in CA.)

(Note to Reviewer: *The following marketing claims may be used with the prefix “This product” or “This product is {a} {an}”.*)

- Is used to inhibit fungal growth, which causes discoloration, odor and degradation of paper, paperboard or wet lap.
- Can be used as a slimicide in the manufacture of paper and paperboard, depending on the type of stock, quality of raw water, complexity of the system, and degree of contamination.
- For control of bacterial and fungal slimes in pulp mills, paper mills and paper manufacturing.
- This product can be used as a slimicide in the manufacture of paper and paperboard, depending on the type of stock, quality of raw water, complexity of the system, and degree of contamination. Do not use to treat paper or paperboard which will contact food.
- This product is used to inhibit fungal growth which causes discoloration, odor and degradation of paper or paperboard or wet lap.

WOOD TREATMENT MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product" or "This product is {a} {an}").

- Is a concentrated biocide for use as a wood preservative.
- {Can treat} {Wood articles that will be protected by these treatments include:} millwork, construction timbers, decking, wood applications, wood shingles, posts and other articles to be used in above ground applications.
- For the control of mold, mildew and fungi in sap stains and wood preservatives.
- For the control of mold, mildew and fungus on green or freshly cut lumber.
- This product will protect treated wood articles from the destructive attack of fungi, mold or mildew.
- This product is used to control mold, mildew and fungus on green or freshly cut lumber.
- When used as directed, this product will protect treated wood articles from the destructive attack of fungi, mold, mildew {and both Reticulitermes and Formosan species of termites}.

PACKAGING CLAIMS

- Concentrate{d}.
- 10% Concentration
- Easy to use.
- Economy size. *(Note to Reviewer: To be used on applicable container)*
- Is an economical concentrate.
- Makes *(insert value)* [{Gal.} {Quarts} {Containers}]
- This [{container} {bottle}] is made of {at least} (x) % post-consumer recycled plastic.

DIRECTIONS FOR USE

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

(Note to Reviewer (General Considerations): Numbered instructions will be used if label space permits, otherwise may appear in paragraph format. Unit abbreviations can be spelled out. When choosing optional text, appropriate punctuation can be inserted or deleted. Equivalent use dilution ratios may be substituted within the directions.)

{Please read entire label and use strictly in accordance with precautionary statements and directions.}

WATER TREATMENT (Not for Use in CA.)

Do not use water containing residues from use of this product to irrigate crops for food or feed.

(Note to Reviewer: The following sentence must be used with the air washer use listed in the directions:)
For use only in industrial air washers and air washer systems which have mist-eliminating components.

AIR WASHERS, INDUSTRIAL {{AND/OR} COMMERCIAL} RECIRCULATING COOLING WATER TOWERS, RETORT WATER SYSTEMS, EVAPORATIVE CONDENSERS, HEAT {{EXCHANGE} {TRANSFER}} {WATER} SYSTEMS, DAIRY SWEETWATER SYSTEMS, HYDROSTATIC STERILIZERS, INFLUENT SYSTEMS, {BREWERY} PASTEURIZERS AND WARMERS: For best results, clean heavily contaminated systems before treatment with this product. If soap or anionic detergent is used, rinse thoroughly before charging with this algacide. {Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages.} Repeat every seven days or increase frequency if needed. Should slime develop again, repeat initial dosage.

1. **Dosing Location:** This product is to be applied at a point in the system where it will be uniformly mixed, such as the basin area, the sump, or another reservoir or collecting area.
2. **Dosing Conditions:** This product must be applied when the system is in jeopardy of being affected or after cleaning systems where efficiency is already impaired. {Tower bleed off valves must be closed to permit a retention time of 4 hours.}
3. **Method of Application:**
 - a. **INTERMITTENT OR SLUG METHOD**

Initial Dose: When the system is noticeably fouled, apply 26 - 51 oz. of this product per 1,000 gal. of water {(20– 40 ppm active)} in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 6 - 19 oz. of this product per 1,000 gal. of water {(5 – 15 ppm active)} in the system weekly or as needed to maintain control.
 - b. **MODIFIED INTERMITTENT METHOD**

Initial Dose: When the system is noticeably fouled, apply 26 – 51 oz. of this product per 1,000 gal. of water {(20 – 40 ppm active)} in the system. Apply half of this initial dose when half of the water in the system has been lost by blowdown.

Subsequent Dose: When control of microbial growth is evident, apply 6 – 19 oz. of this product per 1,000 gal. of water {(5- 15 ppm active)} in the system. Apply half of this subsequent dose when half of the water in the system has been lost by blowdown.

c. **CONTINUOUS FEED METHOD**

Initial Dose: When the system is noticeably fouled, apply 26 - 51 oz. of this product per 1,000 gal. of water {(20 - 40 ppm active)} in the system.

Subsequent Dose: Maintain this treatment by starting a continuous feed of 6 - 19 oz. of this product per 1,000 gal. of water {(5 - 15 ppm active)} lost by blowdown.

ONCE THROUGH FRESH {AND SEA} WATER COOLING SYSTEMS: Use of the product in either public/municipal or single or multiple family private/residential potable/drinking water systems is strictly prohibited. Use of the product in any cooling water system that discharges effluent within ¼ mile of either a public/municipal or single or multiple family private/residential potable/drinking water intake is strictly prohibited.

{For best results, slug feed. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of water treatment microbiocide, follow this procedure.}

1. **Dosing Location:** This product is to be applied at a point in the system where it will be uniformly mixed, such as at the sump.
2. **Dosing Conditions:** This product must be applied when the system is in jeopardy of being affected or after cleaning systems where efficiency is already impaired.
3. **Method Of Application:**
 - a. Wear safety glasses, rubber gloves and impervious apron.
 - b. To reduce foaming, mix 2 parts of water to 1 part of this product.
 - c. [{Use} {Add}] 1.3 - 13 oz. of this product per 1,000 gal. of water {(1 - 10 ppm active)}.
 - d. Do not discharge without performing proper deactivation.
 - e. Treatment time cannot exceed 120 hours/application nor exceed 4 times per year.
 - f. Avoid oxidizers and reducing agents. Product is cationic and must not be mixed with soap or anionic surfactants.

(OR)

(Note to Reviewer: Alternate Method of Application language can be used in place of Item #3 directly above.)

3. **Method Of Application:**

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, apply 0.8- 7.7 oz. of this product per 1,000 gal. of water {(0.6 - 6 ppm active)} based on system flow rates. The minimum treatment is 6 to 24 hours. Repeat until control is achieved. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm clay to 1 ppm product.

Subsequent Dose: When microbial control is evident, add 0.4- 3.8 oz. of this product per 1,000 gal. of water {(0.3 - 3 ppm active)} based upon system flow rates on an as needed basis to maintain control. Frequency of feed must be tied to an in-plant monitoring program for macro cowlng growth. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm clay to 1 ppm product.

(Note to Reviewer: Deactivation instructions must be used with the above Once Through directions for use.)

DEACTIVATION: Use bentonite clay at the minimum ratio of 5 ppm clay to 1 ppm product. This product must be deactivated prior to discharge of the NPDES outfall. Do not apply this product more than 4 times a year.

BACTERIAL, FUNGAL AND ALGAE {SLIME} CONTROL IN RECIRCULATING AUXILIARY AND WASTE WATER SYSTEMS, AND {BREWERY} PASTEURIZERS:

Initial dose: Add this product at an initial dosage of 1 - 2 gal. of product per 5,000 gal. of system water {(20 - 40 ppm active)}. Repeat until the desired level of control is achieved. Heavily contaminated systems must be pre-cleaned.

Subsequent dose: Once control is achieved, add maintenance dosages of 0.3 - 1.0 gal. of product per 5,000 gal. of system water {(5 - 20 ppm active)} weekly or as needed to maintain control. Apply this product to a point in the system where it will be uniformly mixed and distributed, such as the tower sump.

AUXILIARY SYSTEMS AND SERVICE WATER: Add 0.2 - 5.4 gal. of this product per 3,000 gal. of water {(5 - 180 ppm active)} in the system continuously. This product must be added to the system at a point of uniform mixing by slug or intermittent feed or by spraying onto a waste pile. The frequency of feed or spray and the duration of treatment will depend upon the severity of the contamination. Additions to water systems must be made during the pumping operation and as close to the pump as possible to ensure adequate mixing.

INDUSTRIAL WASTEWATER SYSTEMS {Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks}: This product is added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 2.5 - 12.5 gal. of this product per 1,000 gal. of wastewater or sludge {(250 - 1250 ppm active)}.

{{OIL FIELD} {GAS PRODUCTION} {TRANSMISSION PIPELINE} {AND} {SYSTEMS}:} Specific treatment requirements vary among oil and/or gas field sites and subsystem components. {Oil field fluids and subsystems most commonly requiring microbial contamination control are raw water sources, separators, ballasts, storage and mixing tanks, screens, surface injection equipment, production equipment {{such as injection and production piping casing, completion and valving}} and the formation itself.} The primary point of treatment will vary among oil and/or gas field operations depending on the site problems, water-flood treatment methods and equipment. This product must be added where it will disperse rapidly and uniformly to the desired area of treatment.

Additions of this product must be made with the proper type of metering pump equipment, suction (low pressure) side of pumping equipment or similar device. This product must be added to the system by slug, continuous or on an intermittent basis, depending on the degree of system fouling.

OIL FIELD WATER FLOOD OR SALT WATER DISPOSAL SYSTEMS AND FRACTURING FLUIDS: This product must be added to the water flood or salt water disposal system at a point of uniform mixing.

1. **Continuous Use:** Add 0.5 – 2.0 gal. of this product per 10,000 gal. of water {{5 - 20 ppm active}} to control slime forming and sulfate reducing bacteria. Levels for effective control will vary depending on conditions at the site.
2. **Intermittent Use:** Add at a rate of 0.5 – 2.0 gal. of this product per 10,000 gal. of water {{5 - 20 ppm active}} for 4 - 8 hrs. per day, one to four times a week as needed to maintain control.
3. **Treatment of flow back return water** {{Post Hydraulic Fracturing}}: Dose at a rate of 0.5 – 2.0 gal. of this product per 10,000 gal. of water of water {{5 - 20 ppm active}} for 4 – 8 hours per day, one to four times a week as needed to maintain control.

OILFIELD INJECTION AND WASTE WATER: This product must be added to the water handling system at a point of uniform mixing such as the area of addition of makeup water to the holding tank.

Method of Application:

1. **Continuous Injection:** Add at a rate of 38.4 oz. of this product per 1,000 gal. of water {{30 ppm}} when system is noticeably fouled. When microbial control is evident, add this product at 19.2 oz. of this product per 1,000 gal. of water {{15 ppm}} to maintain control.
2. **Batch Treatment:** Add at a rate of 230.4 oz. of this product per 1,000 gal. of water {{180 ppm}} over a period of 4-6 hours one or more times per week when the system is noticeably fouled. When microbial control is evident, add this product at 115.2 oz. of this product per 1,000 gal. of water {{90 ppm}} over a period of 4-6 hours one or more time per week.

{{FRACTURING} {FRAC}} FLUIDS: Add this product to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole. Dose Range: Add 0.5 – 2.0 gal. of this product per 10,000 gal. of water {{5 - 20 ppm active}} to control slime forming and sulfate reducing bacteria. Levels for effective control will vary depending on conditions at the site.

OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS: For the control of sulfate-reducing bacteria and slime forming bacteria, this product must be added to a gas production or transmission pipeline via direct injection at a point where uniform and maximum distribution will occur. The application must be conducted to ensure maximum distribution of the product through the internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. Criteria for success of the treatment will be reduction in bacterial count and/or corrosion rates. To facilitate application, it is desirable to dilute the product with an appropriate solvent immediately before use. The concentration in the solvent must not fall below an active concentration range of 500 - 5000 ppm active based on the volume of water in the pipeline. Injections to the system must be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS: To treat individual injection wells add 0.65 – 10.0 gal. of this product per 1000 gal. {{65 – 1000 ppm active}} to produce an effective concentration. Update treatment rate as needed. This product must be diluted by the water present in the formation. Injection takes place before gas is injected and may be repeated yearly or as needed to maintain control.

PIPELINE PIGGING AND SCRAPING OPERATIONS: Add this product to slug water immediately following the scraper {{keep the water volume to a minimum and contained between the scraper and the {{following} {trailing}} pig}}. Add an effective concentration of 9.6 – 64.0 oz. of product per 100 gal. of water {{75 – 500 ppm active}} depending on the length of the pipeline and the severity of the biofouling.

DRILLING, COMPLETION AND WORKOVER FLUIDS SYSTEMS: This product is to be added to these fluid systems at a point of uniform mixing, such as a circulating, holding or mud tank. Levels for effective control will vary depending on conditions at the site and the severity of the contamination.

1. **Initial treatment:** Add 0.65 – 10.0 gal. of this product per 1000 gal. {{65 – 1000 ppm active}} to a freshly prepared fluid.
2. **Maintenance dosage:** Add 0.65 – 10.0 gal. of this product per 1000 gal. {{65 – 1000 ppm active}} to a freshly prepared fluid.

PACKER FLUIDS: This product is to be added to the packer fluid at a point of uniform mixing such as a circulating holding tank {and} {other mixing device locations}. Add 0.65 – 10.0 gal. of this product per 1000 gal. of packer fluid {{65 – 1000 ppm active}} to a freshly prepared fluid. Levels for effective control vary depending on conditions at the site and the severity of contamination. Seal the treated packer fluid in the wall between the casing and the production tube.

HYDROTESTING: Treat water used to hydrotest pipelines or vessels by adding 0.65 – 10.0 oz. of this product per 1,000 gal. of water {{65 – 1000 ppm active}} depending on the water quality and length of time the equipment will remain idle.

PULP AND PAPER MILLS (Not for use in CA.)

Do not use to treat paper or paperboard which will contact food.

SLIMICIDE APPLICATIONS: Do not use to treat paper or paperboard which will contact food. Apply this product to the paper making system at a point of uniform mixing such as, thin or thick stock chests, save-all tank, process tank or whitewater tank.

Initial Dose: When system is noticeably contaminated, add 1 – 200 gal. of this product per 100,000 gal. of whitewater {(1 – 200 ppm active)} to be treated as a continuous or slug dose. Repeat until control is achieved. Heavily fouled systems must be boiled out prior to initial treatment.

Subsequent Dose: When microbial control is evident, add 1 – 200 gal. of this product per 100,000 gal. of whitewater {(1 – 200 ppm active)} to be treated as necessary to maintain control.

CONTROL OF BACTERIAL, FUNGI/MOLD AND ALGAE {SLIME} ON PULP, PAPERBOARD & WET LAP: Application of this product must be made at a point in the system where mixing action is good or can be made at the size press or water box. For inhibition of wet lap or sheet pulp this product must be applied to the dewatered pulp surface via applicator rolls or showers.

Dosing Application: Apply at a rate of 2 – 400 lbs. of this product per ton {(dry basis)} of pulp or paperboard produced. This product may be drip fed continuously from the drum, diluted and showered to the wet sheet or fed by suitable pumps.

WOOD PRESERVATIVES

Do NOT use treated wood for construction/repair of bee hives.

SAP STAIN CONTROL: Seasonal variation in storage and shipping conditions, species and condition of wood must be considered in selection of end use concentration. For effective inhibition of mold and fungus, lumber and logs must be dipped or sprayed in a manner that ensures that all surfaces are uniformly treated.

To Apply to Lumber or Logs: Spray or dip lumber/logs with a use-solution of 5 gal. of this product per 25 – 100 gal. of water. Dip tanks and drip aprons must be roofed, paved and drained to prevent dilution and loss of the anti-stain solution.

For best results, green wood must be treated immediately, at least within 24 hours after cutting or sawing. Mold and fungus growth begins immediately after cutting so delayed treatment is much less effective and requires increased chemical concentration. Green, untreated lumber must not be used for stickers.

Freshly treated lumber must not be allowed to remain unprotected in heavy rains. Treated lumber must be stored under cover, or indoors, or at least 100 feet from any pond, lake, stream, wetland or river to prevent possible runoff of the product into the waterway. Treated lumber stored outdoors within 100 feet of a pond, lake, stream, wetland, or river must be either covered with plastic or surrounded by berm to prevent surface water runoff into the nearby waterway. If a berm is used around the site, it must consist of impermeable material (clay, asphalt, concrete) and be of sufficient height to prevent runoff during heavy rainfall events.

WOOD PRESERVATIVES: {Wood articles that will be protected by these treatments would include millwork, construction timbers, decking, wood shingles, posts and other articles to be used in above ground applications.}

Treatment can be done [{by brush and/or spray,} {brush, spray for wood shingle applications,} {{and} by pressure, double vacuum, dip {method} {for other wood products.}} {Although dip, brush and spray cannot be used for protection against termites.} Apply in well ventilated areas.

(OR)

Treatment can be done by brush or spray for wood shingle applications, and by pressure, double vacuum or dip method for other wood products. Wood articles that will be protected by these treatments would include millwork, construction timbers, decking, wood shingles, and posts.

{This product can be used in combination with other EPA registered organic and inorganic wood preservatives or it can be used alone.} Dilute X – X oz. this product per gal. of either water or mineral spirits {or Sentry GoldSeal™} to produce a 0.5% – 3.0% active solution.

Percent Active Quat Solution	oz. of Product per gal.
0.5	6.40
1.0	12.80
1.5	19.20
2.0	25.60
2.5	32.00
3.0	38.40

MAQUAT® MC1412-10%-W AND COPPER COMPOUNDS: This product is only to be used in combination with the following copper compounds in pressure treatment applications. Mix this product with water and either [{ACQ-C2 EPA Reg. No 83997-4 or ACQ-C EPA Reg. No. 83997-2} {NW 100-C, EPA Reg. No. 3008-87 or NW 200-C, EPA Reg. No. 3008-89}]. Refer to the product labels for [{ACQ-C and ACQ-C2} {NW 100-C and NW 200-C}] for precise mixing instructions.

MAQUAT® MC1412-10%-W AND BORATES: This product is only to be used in combination with the following borates in pressure treatment or dip treatment applications. Mix this product and [{an EPA registered source of Disodium Octaborate Tetrahydrate} {using either} {Wood Bor, EPA Reg. No. 3008-61,} {BoraSol WP, EPA Reg. No. 69529-2,} {Timbersaver, EPA Reg. No. 83997-8, TimberSaver PT, EPA Reg. No. 83997-8,} {Tim-Bor, EPA Reg. No. 1624-39,} {Cellu-Treat DOT Wood Preservative, EPA Reg. No. 64405-8,} {Bor-Ram, EPA Reg. No. 64405-18} {Borathor Max PT, EPA Reg. No. 81824-11}] in water. Refer to the product labels for precise mixing.

This product is only to be used in combination with the following borates in brush or spray applications. Mix this product and [{Lum-Bor, EPA Reg. No. 19713-286} {or} {BoraSol WP, EPA Reg. No. 69529-2}], in water. Refer to the product label for precise mixing instructions.

This product is only to be used in combination with the following borates in dip treatment applications. Mix this product and [{BORA-CARE, EPA Reg. No. 64405-1} {or} {BoraSol WP, EPA Reg. No. 69529-2}], in water. Refer to the product label for precise mixing instructions.



(Note to Reviewer: The personal protective equipment statements must be used with the appropriate direction for use.)

PERSONAL PROTECTION EQUIPMENT FOR PRESSURE TREATMENT, DOUBLE VACUUM AND DIP TREATMENT

Applicators must wear gloves, which are chemical-resistant {such as nitrile or butyl} in all situations where dermal contact is expected {i.e. handling freshly treated wood and manually opening cylinder doors}. Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g. cylinders that are in operation or are not free of all treatment solution) must wear coveralls over a long sleeved shirt and long pants, socks, chemical-resistant footwear, and protective eyewear. Federal, State and local confined space entry procedures must be taken.

Applicators must not eat, drink or use tobacco products during those parts of the applications process that may expose them to the wood treatment formulation {e.g. manually opening/closing cylinder doors, moving trams out of cylinders, mixing chemicals, handling freshly treated wood}. Wash thoroughly after skin contact and before eating, drinking, use of tobacco products or using restrooms.

Protective clothing must be changed when it shows signs of contamination. Applicators must leave protective clothing and footwear and equipment at the plant. Worn out protective clothing and footwear must be left at plant and disposed of in a manner approved for pesticide disposal and in accordance with state and federal regulations.

FOR PRESSURE TREATMENT APPLICATION: Place the wood article to be treated into the pressure cylinder and seal unit. Treat the wooden articles using the pressure treatment procedures consistent with the equipment being used and standard treatment practices. Treatment conditions must be such as to produce a 0.1 to 0.6 lb./cu. ft. retention in the treatment article. Treated wood is to be used for above ground uses only.

FOR DOUBLE VACUUM APPLICATION: Stack the wooden articles to be treated in the treatment vessel so that the preservative solution will have access to all sides of the articles. Seal the vessel. Reduce the pressure within the vessel to –10 in. for 5 minutes. Cover all the articles with preservative solution. Allow the pressure to return to atmospheric conditions and discharge the preservative solution. Reduce the pressure to –20 in. and maintain for 20 minutes. Allow the pressure to return to atmospheric and remove treated wood articles. Treatment conditions must be such as to produce a 0.1 – 0.6 lbs./cu. ft. retention of ADBAC in the treated article. Wood treated to this retention is to be used for above ground use only.

FOR DIP TREATMENT: Stack the wood to be treated on a suitable holder and convey the stack into the treating solution making sure the stack is completely immersed. Dip times must range from 30 seconds (individual pieces) up to 30 minutes (bundled wooden articles). Use a concentration of 0.5 – 3.0% active quaternary ammonium compound. The concentration should be customized to the degree of sap stain protection desired, which must be determined by an independent test on the intended species of wood.

(Note to Reviewer: The personal protective equipment statements must be used with the appropriate direction for use.)

PERSONAL PROTECTION EQUIPMENT FOR BRUSH AND SPRAY APPLICATIONS

Applicators must wear gloves, which are chemical-resistant (such as nitrile or butyl). Applicators must also wear coveralls over a long sleeved shirt and long pants, socks, chemical-resistant footwear, and protective eyewear. Applicator must not eat, drink, or use tobacco during the application process. Use with adequate ventilation, mist or vapor generated by spraying this product may be harmful if inhaled. Wash thoroughly after skin contact, and before eating, drinking, use of tobacco products or using restrooms. Protective clothing must be changed when it shows signs of contamination. Brush/Spray treatment may require frequent changing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining protective equipment. If no such instructions exist for washables, use detergent and hot water. Keep and wash protective equipment separate from other laundry.

Worn out protective clothing and work shoes or boots must be disposed of in a manner approved for pesticide disposal and in accordance with State and Federal regulations.

FOR BRUSH OR SPRAY APPLICATIONS: A 0.5% – 3% active quaternary ammonium solution with water {(or Sentry GoldSeal™)} may be applied by brush or spray for use on wood shingles or shake roofs, siding on existing homes by commercial applicators, on interior construction products and surfaces such as lumber, concrete, sheetrock, wallboard, block and steel. Use low-pressure equipment for spray applications. A moderately fine spray, not an aerosol or fog, generally provides the best coverage at practical product concentrations. Apply only to point of runoff.

STORAGE AND DISPOSAL

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

{PESTICIDE} STORAGE: Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

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

CONTAINER HANDLING:

(Note to Reviewer: One or more of the following paragraphs for Container Handling will be selected, depending on packaging use/type.)

{For non-refillable containers equal to or less than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{For non-refillable containers greater than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: 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 back and forth several times. Turn the container over onto its other end and tip back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{Refillable containers}

Refillable Container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or a mix tank. Fill container about 10 percent 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.



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through the skin or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield, chemical-resistant gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

(If container is equal to or greater than 5 gal., the following statement must appear on the label.)

This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(If container is less than 5 gal., use the following as an alternate to the above statement.)

This product is toxic to fish, aquatic invertebrates, oysters and shrimp.



{SPANISH ADVISORY STATEMENTS}

(Note to Reviewer: This statement is optional except when used on labels with agricultural uses.)

{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.}



GRAPHICS AND ICONS

(Note to Reviewer: These are representative icons for use sites/application methods that may appear on the label with the appropriate directions for use, PPE or package type.)

{Baby Drowning in Bucket
Warning Graphic}

{Made in USA Logo/Flag}

{Recycling Logo}

{Mixing Chemical Warning
Graphic}



{WARRANTY STATEMENT}

(Note to Reviewer: This statement is optional.)

Read Product Material Safety Data Sheet prior to use, PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND on the Product Material Safety Data Sheet. Unless inconsistent with applicable law, use of Product signifies agreement with these provisions.

Lea la Hoja de Seguridad del Producto antes de usarlo. LA GARANTIA DEL PRODUCTO, DECLINACION Y LIMITACION DE RESPONSABILIDAD SE ENCUENTRAN en la Hoja de Seguridad del Producto. A menos de que sea inconsistente con la ley, el uso del product signigica acuerdo con estas disposiciones.