

10324-209

2/23/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 10324-209

Date of Issuance: FEB 23 2011

Term of Issuance: Conditional

Name of Pesticide Product: Maquat 12:3

NOTICE OF PESTICIDE:
[x] Registration
[ ] Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mason Chemical Company
721 West Algonquin Rd.
Arlington Heights, IL 60005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. The following study is received by the Agency, reviewed and found to be acceptable in order to fulfill the conditions of this Registration: Product Specific Acute Inhalation. This data must be conducted in accordance with established protocols and submitted to the Agency for review by February 23, 2012.

Signature of Approving Official:

Velma Noble
Product Manager Team-31

Date:

FEB 23 2011

Regulatory Management Branch I

CONCURRENCES

Table with columns for SYMBOL, SURNAME, DATE, and CONCURRENCES. Includes handwritten entries for '7510P', 'J. Fort', and '2/23/11'.

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3. Make the labeling changes listed below before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 10324-209".

b. Revise the Precautionary Statements to include the following language such that this statement is in agreement with the toxicity data:

"...Corrosive. Causes irreversible eye damage. Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, clothing and spray mist. Do not get in eyes. Wear goggles or face shield when handling. Wash thoroughly with soap water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing..."

c. Immediately following the Ingredients Statement on page one add: **"Weight Approx 8.5 lbs./gal."**

d. Your label is not in agreement with PR Notice 2000-5 which indicated the need to mandatory language in the Directions for Use. As such, make the following revisions to this label:

1. Revise the Air Washers and Industrial Scrubbing Systems...section to read as follows: "This product *is* used in industrial...", "This product *is* added at the application rates...", "Addition *is* made intermittently...", "...blowdown *is* discontinued for up to..." and "This product *is* used in industrial process water..."

2. Revise the Service Water and Auxiliary System section to read as follows: "This product *is* used at the same application...", and "It *is* added to the system at a point..."

3. Revise the Heat Transfer System section to read as follows: "This product *is* used at the same application...", and "It *is* added to the system at a point..."

4. Revise the Industrial Wastewater System section to read as follows: "This product *is* added to a wastewater system..."

5. Revise the Paper Mills and Paper Mill Process Water Systems section to read as follows: "This product *is* added to the paper making..." In addition, add the following statement to this section: "Do not use to treat paper or paperboard which will contact food."

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6. Revise the Water Floods section to read as follows: "This product is added to a water flood..."

7. Revise the Frac Fluids section to read as follows: "Dose Range: This product is added at a rate of 50 to..."

8. Revise the Packer Fluids section to read as follows: "This product is added to a packer fluid at a point..."

9. Revise the Oil and Gas Production and Transmission Pipelines and Systems section to read as follows: "This product is added to an oil/gas...", "The application is conducted to ensure...", "The concentration in the solvent must not fall below..." and "Injections are made weekly, or as needed..."

10. Revise the Gas Storage Wells and Systems section to read as follows: "Individual injection wells are treated with a sufficient...", "Injection takes place before gas is injected..."

11. Revise the Pipeline Pigging and Scraping Operations section to read as follows: "Sufficient product is added to produce..."

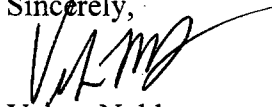
e. Clarify the directions for use in Water Based Coating, Pigments and Filler Slurries for Paper and Paperboard section to read as follows: "...to produce a concentration of 333.3 to 2000 ppm of product (based on..."

General Comments

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

A stamped copy of the label and reviews for this product are enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Branch I  
Antimicrobials Division (7510P)

CONCURRENCES

SYMBOL	SURNAME	DATE	Comments
			Enclosures: (Stamped Label, Chemistry and Toxicity review)

MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-

E.P.A. Est. No. 10324-IL-1

MAQUAT® 12:3

Net Contents

Batch No

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

**DANGER.** Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through the skin or inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves and protective clothing when handling.

*(If container is 5 gallons or larger the following statement must appear on the label.)*

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish. 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.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.  
Do not mix with oxidizers, anionic soaps and detergents.

**First Aid**

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

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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, if possible. Call a poison control center or doctor for further treatment advice.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
**FEB 23 2011**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-209

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, industrial recirculating water handling systems.

A highly effective microbiocide for use in controlling bacteria including slime forming bacteria and sulfate-reducing bacteria (SRB) and fungi (yeast and molds) and algae in air washers and industrial scrubbing systems, recirculating cooling and 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.

(Product of USA) (Made in the USA)

**ACTIVE INGREDIENTS:**

Glutaraldehyde ..... 12.5%  
Alkyl (50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>16</sub>)  
dimethyl benzyl ammonium chloride ..... 1.2%  
Didecyl dimethyl ammonium chloride ..... 1.8%

**INERT INGREDIENTS:** ..... 84.5%  
**TOTAL:** ..... 100.00%

Weight Approx. -- lbs/gal.

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

See left (back) (side) (right) panel (of label) (below) for additional  
precautionary statements and first aid statements

*(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)*

**TRANSPORTATION INFORMATION**

DOT Hazard Class: 8 Corrosive  
DOT Proper Shipping Name: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGIII

**PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR  
SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR  
CON ESTE PRODUCTO.**

Manufacturing and/or Lot no. Date:

10324

## DIRECTIONS FOR USE

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

### AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washers systems which have mist-eliminating components.

This product should be added at the application rates described below to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (Slug Dose) or continuously. Badly fouled systems can be shocked treated with this product. Under these conditions, blowdown should be discontinued for up to 24 hours.

This product can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved by membrane manufacturer) and associated distribution systems.

#### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably fouled, apply 42.67 to 85.33 fluid ounces (50 to 100 ppm on an actives basis) of this product per 1,000 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 17.07 to 42.67 fluid ounces (20 to 50 ppm on an actives basis) of this product per 1,000 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

#### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably fouled apply 42.67 to 85.33 fluid ounces (50 to 100 ppm on an actives basis) of this product per 1,000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 8.53 to 42.67 fluid ounces (10 to 50 ppm on an actives basis) of this product per 1,000 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

#### SERVICE WATER AND AUXILIARY SYSTEMS

This product should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

#### HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

This product should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

#### INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

This product should be added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 1.67 to 8.33 gallons (250 to 1250 ppm on an actives basis) of this product per 1,000 gallons of wastewater or sludge.

#### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

This product should be added to a paper making system at a point of uniform mixing such as the thin or thick stock chest, save-all tank, process tank or white water tank.

**Initial Dose:** When the system is noticeably contaminated, add 1.67 to 10.0 lbs. of this product per ton or 0.83 to 5.0 kg of this product per metric ton of pulp or paper (dry basis) as a continuous or slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

**Subsequent Dose:** When microbial control is evident, add 1.0 to 6.67 lbs. of this product per ton or 0.5 to 3.33 kg of this product per metric ton of pulp or paper (dry basis) as necessary to maintain control.

#### WATER BASED COATING, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

**Note:** For use in non-food contact coating only.

Use from 0.33 to 2.0 lbs. of this product per 1,000 lbs. of dry powder or 0.33 to 2.0 kg of this product per metric ton of dry slurry to produce a concentration of 333.3 to 2000 ppm as product (based on slurry solids) in the mixed slurry.

#### WATER FLOODS

This product should be added to a water flood system at a point of uniform mixing.

**Initial Treatment:** When the system is noticeably contaminated, add 50 to 2500 ppm (on an actives basis) of this product to the system (0.33 to 16.67 gallons of this product per 1,000 gallons flood water). Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 10 to 2500 ppm (on an actives basis) of this product (0.07 to 16.67 gallons of this product per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

#### FRAC FLUIDS

This product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. 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:** This product should be added at a rate 50 to 2950 ppm on an actives bases (3.23 to 196.67 gallons per 10,000 gallons), depending on the degree of bacterial fouling in the source water.

#### DRILLING, COMPLETION, AND WORKOVER FLUIDS

This product should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

**Initial Treatment:** Add 25 to 500 ppm (on an actives basis) of this product (0.7

to 14.0 gallons of this product per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

**Maintenance Dose:** Maintain a concentration of 25 to 500 ppm (on an actives basis) of this product by adding 0.7 to 14.0 gallons of this product per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

#### PACKER FLUIDS

This product should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 25 to 300 ppm (on an actives basis) of this product (0.7 to 8.4 gallons of this product per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal treated packer fluid in the wall between the casing and production tube.

### **OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

This product should be added to an oil/gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of this product throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute this product with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

### **GAS STORAGE WELLS AND SYSTEMS**

Individual injection well should be treated with a sufficient quantity of this product to produce a concentration of 1,666.7 to 16,666.7 ppm of this product when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of this product to produce a concentration of 666.7 to 6666.7 ppm of this product when diluted by the water present in the drip. Injections should be repeated yearly or as needed to maintain control.

### **HYDROTESTING**

Water used to hydrotest pipelines or vessels should contain 50 to 2,000 ppm (on an actives basis) of this product (0.33 to 13.33 gallons of this product per 1,000 gallons water) depending on the water quality and length of time the equipment remains idle.

### **PIPELINE PIGGING AND SCRAPING OPERATIONS**

Add the product to a slug of water immediately following the scraper. Ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig. Sufficient product should be added to produce a concentration of 0.33 to 3.33% (0.33 to 3.33 gallons of this product per 100 gallons of water), depending on the length of the pipeline and the severity of biofouling.

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*(Note to reviewer: The title and first statement of this section must appear on every label, followed by the appropriate Storage and Disposal section.)*

## STORAGE AND DISPOSAL

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

*(FOR USE ON NON-REFILLABLE CONTAINERS WITH WITH INSTITUTIONAL/COMMERCIAL/INDUSTRIAL NON-PUBLIC HEALTH USES ONLY)*

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

**RESIDUE REMOVAL INSTRUCTIONS** *(For containers less than 5 gallons):* Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain 10 seconds after the flow begins to drip. Fill the container ¼ 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.

**RESIDUE REMOVAL INSTRUCTIONS** *(For containers greater than 5 gallons):* Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty 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 for later use or disposal. Repeat this procedure two more times.

**BATCH CODE:** *(Can be placed on container or label)*

*(FOR USE ON REFILLABLE CONTAINERS – 5 gallon and 55 gallon containers)*

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 DISPOSAL:** Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

**RESIDUE REMOVAL INSTRUCTIONS** *(For containers greater than 5 gallons with Industrial/Commercial Non-public Health Uses):* 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. Empty 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 this procedure two more times.

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