



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

10324-235

Date of Issuance:

10/13/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Maquat 5-5

Name and Address of Registrant (include ZIP Code):

Ryan J. Connair
Registration Specialist
Mason, a Pilot Chemical Company
9075 Centre Pointe Dr., Suite 400
West Chester, OH 45069

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Joseph Varco
Acting Product Manager, Team 33
Regulatory Management Branch I
Antimicrobials Division
Office of Pesticide Programs

Date:

10/13/20

2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Glutaraldehyde GDCI-043901-1668
 - b. Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride GDCI-069105-30882
 - c. Didecyl dimethyl ammonium chloride GDCI-069149-30869

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 10324-235.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

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) lists 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 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 Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/20/2020
- Alternate CSF 1 dated 04/20/2020
- Alternate CSF 2 dated 04/20/2020
- Alternate CSF 3 dated 04/20/2020

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Decision No. 562723

If you have any questions, please contact Terria Northern by phone at 703-347-0265, or via email at northern.terrialast.first@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Varco', is positioned above the typed name.

Joseph Varco
Acting Product Manager, Team 33
Regulatory Management Branch I
Antimicrobials Division
Office of Pesticide Programs

Enclosure

MAQUAT[®] 5-5

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

Microbiocide • Algaecide • Slimicide

ACTIVE INGREDIENTS:

Glutaraldehyde	5.0%
Didecyl dimethyl ammonium chloride.....	3.0%
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride	2.0%

OTHER INGREDIENTS: 90.0%

TOTAL: 100.0%

{Weight Approx. 8.4 lbs./gal.}

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

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

(Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements will appear on the front panel of the product label.)

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: 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.

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}.}



(Note to Reviewer: This referral statement may be organized in any order to be grammatically correct.)

{{Consult} {See} {additional} {sheet} {insert} {inside} {outer container} {Product Information} {Bulletin} {for} {other} {directions for use} {and} {information} {claims} {organisms} {applications}.}

Net Contents:

{{[Batch] {Lot}] No.} {Manufacturing Date}:
{Product of USA} {Made in the USA}

ACCEPTED

10/13/2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 10324-235

TABLE OF CONTENTS

(Note to Reviewer: The Table of Contents is optional and may appear on labeling with the page numbers altered as necessary to reflect the pagination of the final printed label.)

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MARKETING CLAIMS

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

{LOCATIONS}

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

This product is for use in *(insert location)*.

For use {in} {on} *(insert location)*.

{LOCATIONS}

- Drilling, completion, and workover fluids systems
- Gas storage wells and systems
- Hydrotesting facilities
- Oil field water flood systems {and fracturing fluid systems}
- Packer fluid systems
- Pipeline pigging and scraping operations

WATER TREATMENT MARKETING CLAIMS

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

- 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 production 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, and industrial recirculating water handling systems.
- For control of algae and algal, fungal, and bacterial slimes in oil field water flood systems.
- Has been designed specifically for control of sulfate-reducing bacteria that contribute to souring, the production of sulfide, and abiotic corrosion in oil field systems and gas production/transmission pipelines and systems.
- Is a microbiocide that helps clean and loosen slime debris from flooding system surfaces.
- Kills and prevents algae.
- The residual effectiveness of this algacide tends to stabilize the total chemical treatment system.
- Reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations.

GENERAL MARKETING CLAIMS

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

- Efficient and non-staining when used as directed.
- Non-staining.
- Will not damage tile, concrete, metal, or plastics.

PACKAGING CLAIMS

- Concentrate{d}.
- Easy to use.
- Is an economical concentrate.
- 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.}

OIL FIELD, GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

{{OIL FIELD} {GAS PRODUCTION} {TRANSMISSION PIPELINES} {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 SYSTEMS AND FRACTURING FLUIDS: This product must be added to the water flood at a point of uniform mixing.

1. **Continuous Use:** Add 0.5 - 26.25 gal. of this product per 1,000 gal. of flood water {(50 - 2,625 ppm active)} {(25 - 1,313 ppm quat)} {(25 - 1,313 ppm glutaraldehyde)} 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 - 26.25 gal. of this product per 1,000 gal. of flood water {(50 - 2,625 ppm active)} {(25 - 1,313 ppm quat)} {(25 - 1,313 ppm glutaraldehyde)} for 4 - 8 hours 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 - 26.25 gal. of this product per 1,000 gal. of flood water {(50 - 2,625 ppm active)} {(25 - 1,313 ppm quat)} {(25 - 1,313 ppm glutaraldehyde)} for 4 - 8 hours per day, one to four times a week as needed to maintain control.

INJECTION WASTE FLUIDS: Add 0.5 - 25 gal. of this product per 1,000 gal. of waste fluid {(50 - 2,500 ppm active)} {(25 - 1,250 ppm quat)} {(25 - 1,250 ppm glutaraldehyde)} prior to or at injection into an approved disposal well.

{{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 - 28.8 gal. of this product per 1,000 gal. of frac water {(50 - 2,880 ppm active)} {(25 - 1,440 ppm quat)} {(25 - 1,440 ppm glutaraldehyde)} 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{n} {{oil} {and/or} {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 - 5,000 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: Treat individual injection wells with 2.5 - 50 gal. of this product per 1,000 gal. of water {(250 - 5,000 ppm active)} {(125 - 2,500 ppm quat)} {(125 - 2,500 ppm glutaraldehyde)}. 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.

Individual drips should be treated with a sufficient quantity of this product to produce a concentration of 100 - 1,000 ppm active {(50 - 500 ppm quat)} {(50 - 500 ppm glutaraldehyde)} when diluted by the water present in the drip. Injections should 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 5 - 50 gal. of this product per 1,000 gal. of water {(500 - 5,000 ppm active)} {(250 - 2,500 ppm quat)} {(250 - 2,500 ppm glutaraldehyde)} 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 0.25 - 10 gal. of this product per 1,000 gal. of freshly prepared fluid {(25 - 1,000 ppm active)} {(13 - 500 ppm quat)} {(13 - 500 ppm glutaraldehyde)}.
2. **Maintenance Dosage:** Add 0.25 - 10 gal. of this product per 1,000 gal. of freshly prepared fluid {(25 - 1,000 ppm active)} {(13 - 500 ppm quat)} {(13 - 500 ppm glutaraldehyde)}.

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 0.25 - 7.5 gal. of this product per 1,000 gal. of freshly prepared packer fluid {(25 - 750 ppm active)} {(13 - 375 ppm quat)} {(13 - 375 ppm glutaraldehyde)}. 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 0.5 - 20 gal. of this product per 1,000 gal. of water {(50 - 2,000 ppm active)} {(25 - 1,000 ppm quat)} {(25 - 1,000 ppm glutaraldehyde)} depending on the water quality and length of time the equipment will remain idle.



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 $\frac{1}{4}$ 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 $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip 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. Avoid breathing spray mist. Wear goggles or face shield, chemical-resistant gloves, long-sleeve shirt, long pants, shoes, socks, and chemical-resistant apron 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}



{WARRANTY STATEMENT}

(Note to Reviewer: This statement is optional.)

Read Product Safety Data Sheet prior to use. PRODUCT WARRANTY, DISCLAIMER, AND LIMITATION OF LIABILITY ARE FOUND on the Product 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 producto significa acuerdo con estas disposiciones.