



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

EPA Reg. Number:

72714-3

Date of Issuance:

2/3/22

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

**B-2512**

Name and Address of Registrant (include ZIP Code):

Zofia C Schmidt  
Aquaserv, Inc  
570 N. Rivergate Road  
Memphis, TN 38109

**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 (FIFRA).

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:

Steven Snyderman  
Product Manager, Team 33  
Regulatory Management Branch II  
Antimicrobial Division, OPP

Date:

2/3/22

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Glutaraldehyde: GDCI-043901-1668
  - b. 1-Decanaminium, N-decyl-N, N-dimethyl-, chloride (DDAC): GDCI-069149-1681
  - c. Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16) (ADBAC): GDCI-069105-1679

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

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 72714-3.”
4. 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 FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). 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, FIFRA section 12(a)(1)(B). 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 August 24, 2021

If you have any questions, please contact Zebora Johnson by phone at (202) 566-0730, or via email at [johnson.zebora@epa.gov](mailto:johnson.zebora@epa.gov).

Enclosure: Approved Label



**ACCEPTED**

02/03/2022

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 72714-3

**Aquaserv, Inc.**

570 N. Rivergate Rd. • Memphis, TN 38109 • (901) 525-7701

# B-2512

EPA Reg. No. 72714-  
EPA Est. No.

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

**ACTIVE INGREDIENTS:**

|   |               |
|---|---------------|
| Glutaraldehyde.....   | 25.7%         |
| Didecyl dimethyl ammonium chloride.....   | 7.5%          |
| Alkyl (50%C <sub>14</sub> , 40%C <sub>12</sub> , 10%C <sub>16</sub> )<br>dimethyl benzyl ammonium chloride..... | 5.0%          |
| <b>OTHER INGREDIENTS</b> .....  | <b>61.8%</b>  |
| <b>TOTAL:</b> .....   | <b>100.0%</b> |

{Weight Approx. 8.75 lbs./gallon}

## 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, as prescribed, 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:** 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}.}

Manufactured for: Aquaserv, Inc.  
570 N. Rivergate Rd.  
Memphis, TN 38109

Net Contents:

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

## 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 storage wells and systems
- Hydrotesting facilities
- Industrial {and/or} {commercial} recirculating cooling towers.
- Industrial scrubbing systems
- Oil field water flood systems {and fracturing fluid systems}
- Packer fluid systems
- Pipeline pigging and scraping operations
- Recirculating water systems
- Retort water systems
- Waste water systems
- Water cooling systems
- Paper manufacturing (non-food contact)
- Pulp and paper mills {water process systems} (non-food contact)

### {SURFACES}

- Paper and paperboard (non-food contact)

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## 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}”.)*

- 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.
- Water treatment microbiocide for industrial and/or commercial recirculating cooling water towers, retort water systems and flood systems and fracturing fluids.
- 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.
- Water treatment microbiocide for use in controlling microorganisms such as sulfate-reducing bacteria, slime forming bacteria, algae, and mold and yeast in oil and gas systems, and building and industrial cooling tower systems.
- 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 non-food contact paper and paperboard.
- Controls algae and algal slime growth in industrial and/or commercial recirculating cooling water towers.
- Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of the dosages on the label.

- 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.
- 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.
- Controls and prevents algae.
- 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, settling 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.

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## PULP AND PAPER MILL MARKETING CLAIMS

**(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 non-food contact 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 non-food contact paper or paperboard.

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## 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.
- Is non-staining.
- Will not damage tile, concrete, metal or plastics.

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## PACKAGING CLAIMS

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

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## 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.}

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## WATER TREATMENT

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 direction:*)  
For use only in industrial air washers and air washer systems which have mist-eliminating components.

**AIR WASHERS, COOLING TOWERS, INDUSTRIAL {{AND/OR} COMMERCIAL} RECIRCULATING COOLING WATER TOWERS, RETORT WATER SYSTEMS, EVAPORATIVE CONDENSERS, HEAT {{EXCHANGE} {TRANSFER}} {WATER} SYSTEMS, DAIRY SWEETWATER SYSTEMS, HYDROSTATIC STERILIZERS, PASTEURIZERS AND WARMERS:** {{(Not Approved For Use In California)}} 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.} {Product application may be made intermittently (slug dose) or continuously. Noticeably fouled systems can be shocked with this product. Under these conditions, blow down should be discontinued for up to 24 hours.} Repeat every seven days or increase frequency if needed. Should slime develop again, repeat initial dosage. Noticeably fouled systems must be cleaned before treatment is begun. This product is only used in industrial air washers and air washer systems which have mist-eliminating components.

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 16.75 – 33.5 oz. {{(0.13 - 0.26 gal.)}} of this product per 1,000 gal. of water {{(130 – 260 ppm of product)}} {{(50-100 ppm total active)}} (33.6 – 67.3 ppm active Glutaraldehyde) (9.84 – 19.62 ppm DDAC/ 6.56 – 13.08 ppm ADBAC) (16.4 – 32.7 ppm total active Quaternary)} in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 6.7 – 16.75 oz. {{(0.05 - 0.13 gal.)}} of this product per 1,000 gal. of water {{(50 – 130 ppm of product)}} {{(20 – 50 ppm total active)}} (13.45 – 33.6 ppm active Glutaraldehyde) ( 3.92 - 9.84 ppm DDAC/ 2.62 – 6.56 ppm ADBAC) (6.54 – 16.4 ppm total active Quaternary)} in the system weekly or as needed to maintain control.
  - b. **CONTINUOUS FEED METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 16.75 – 33.5 oz. {{(0.13 - 0.26 gal.)}} of this product per 1,000 gal. of water {{(130 – 260 ppm of product)}} {{(50-100 ppm total active)}} (33.6 – 67.3 ppm active Glutaraldehyde) (9.84 – 19.62 ppm DDAC/ 6.56 – 13.08 ppm ADBAC) (16.4 – 32.7 ppm total active Quaternary)} in the system.

**Subsequent Dose:** Maintain this treatment by starting a continuous feed of 6.7 - 16.75 oz. {{(0.03 - 0.13 gal.)}} of this product per 1,000 gal. of water {{(50 – 130 ppm of product)}} {{(20 – 50 ppm total active)}} (13.45 – 33.6 ppm active Glutaraldehyde) ( 3.92 - 9.84 ppm DDAC/ 2.62 – 6.56 ppm ADBAC) (6.54 – 16.4 ppm total active Quaternary)} lost by blowdown.

**AUXILIARY SYSTEMS AND SERVICE WATER:** {{(Not Approved For Use In California)}} Add 16.75 – 33.5 oz. {{(0.13 - 0.26 gal.)}} of this product per 1,000 gal. of water {{(130 – 260 ppm of product)}} {{(50-100 ppm total active)}} (33.6 – 67.3 ppm active Glutaraldehyde) (9.84 – 19.62 ppm DDAC/ 6.56 – 13.08 ppm ADBAC) (16.4 – 32.7 ppm total active Quaternary)} 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}:** {{(Not Approved For Use In California)}}

This product is added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 0.66 – 3.27 gal. of this product per 1,000 gal. of wastewater or sludge {{(660 – 3,270 ppm of product)}} {{(250 – 1250 ppm total active)}} (168 – 841 ppm active Glutaraldehyde) (49.2 – 245.4 ppm DDAC/ 32.8 – 163.6 ppm ADBAC) (82– 409 ppm total active Quaternary)}.

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## OIL FIELD, GAS PRODUCTION AND TRANSMISSION PIPELINE AND SYSTEMS

**{{OIL FIELD} {GAS PRODUCTION} {HYDROCARBON PRODUCTION} {TRANSMISSION PIPELINE} {AND} {SYSTEMS}}:** {{(Not Approved For Use In California)}} 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 casting, 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, ENHANCED OIL RECOVERY, AND FRACTURING {{(STIMULATION)}} FLUIDS:** {{(Not Approved For Use In California)}} This product must be added to the water flood at a point of uniform mixing.

1. **Continuous Use:** Add 1.3 – 65.5 gal. of this product per 10,000 gal. {{(0.41 - 20.6 gal. of this product per 100 barrels)}} of flood water {{(130 – 6,550 ppm of product)}} {{(50 – 2,500 ppm total active)}} (33.7 – 1,680 ppm active Glutaraldehyde) (9.78 – 492 ppm DDAC/ 6.52 – 328 ppm ADBAC) (16.3 – 820 ppm total active Quaternary)} 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 1.3 – 65.5 gal. of this product per 10,000 gal. {{(0.41 - 20.6 gal. of this product per 100 barrels)}} of flood water {{(130 – 6,550 ppm of product)}} {{(50 – 2,500 ppm total active)}} (33.7 – 1,680 ppm active Glutaraldehyde) (9.78 – 492 ppm DDAC/ 6.52 – 328 ppm ADBAC) (16.3 – 820 ppm total active Quaternary)} for 4 to 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 1.3 – 65.5 gal. of this product per 10,000 gal. {{(0.41 - 20.6 gal. of this product per 100 barrels)}} of flood water {{(130 – 6,550 ppm of product)}} {{(50 – 2,500 ppm total active)}} (33.7 – 1,680 ppm active Glutaraldehyde) (9.78 – 492 ppm DDAC/ 6.52 – 328 ppm ADBAC) (16.3 – 820 ppm total active Quaternary)) for 4-8 hours per day, one to four times a week as needed to maintain control.

**INJECTION WASTE FLUIDS:** {{(Not Approved For Use In California)}} Add 1.3 – 39.6 gal. of this product per 10,000 gal. {{(0.41 – 12.5 gal. of this product per 100 barrels)}} {{(40 – 1,019 ppm active Glutaraldehyde)}} (6 – 297 ppm DDAC/ 4 – 198 ppm ADBAC) (10 – 495 ppm total active Quaternary)) to the waste fluid prior to or at injection into an approved disposal well.

**[{FRACTURING} {FRAC}] FLUIDS:** {{(Not Approved For Use In California)}} 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 1.3 - 65.5 gal. of this product per 10,000 gal. {{(.41 - 20.6 gal. of this product per 100 barrels)}} of flood water {{(130 – 6,550 ppm of product)}} {{(50 – 2,500 ppm total active)}} (33.7 – 1,680 ppm active Glutaraldehyde) (9.78 – 492 ppm DDAC/ 6.52 – 328 ppm ADBAC) (16.3 – 820 ppm total active Quaternary)) to control slime forming and sulfate reducing bacteria. Levels for effective control will vary depending on conditions at the site.

**{OIL FIELD} {GAS PRODUCTION} {TRANSMISSION PIPELINE} {AND} {SYSTEMS}:}** {{(Not Approved For Use In California)}} 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. For pipeline uses, after application and complete distribution throughout the pipeline, a detectable amount of residue product should be present at the back end of the pipeline system. Injections to the system must be weekly, or as needed to maintain control.

**GAS STORAGE WELLS AND SYSTEMS:** {{(Not Approved For Use In California)}} Treat individual injection wells with 6.5 – 65.5 gal. of this product per 10,000 gal. {{(2 - 20.6 gal. of this product per 100 barrels)}} of water {{(655 – 6,550 ppm of product)}} {{(50 – 2,500 ppm total active)}} (168 – 1,680 ppm active Glutaraldehyde) (9.78 – 492 ppm DDAC/ 6.52 – 328 ppm ADBAC) (82 – 820 ppm total active Quaternary)). 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 100-6000 ppm active of this product 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:** {{(Not Approved For Use In California)}} 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 0.13 – 1.31 gal. of product per 100 gal. {{(4.1 – 41.2 gal. of this product per 100 barrels)}} of water {{(1,300 – 13,100 ppm of product)}} {{(5,000 ppm total active)}} (336.2 – 3,362 ppm active Glutaraldehyde) ( 98.3 - 983 ppm DDAC/ 65.5 - 655 ppm ADBAC) (163.8 – 1638 ppm total active Quaternary)) depending on the length of the pipeline and the severity of the biofouling.

**DRILLING {{(MUDS)}, COMPLETION AND WORKOVER FLUIDS SYSTEMS:** {{(Not Approved For Use In California)}} 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 0.06. – 1.3 gal. of this product per 1,000 gal. {{(0.21 – 4.12 gal. of this product per 100 barrels)}} of freshly prepared fluid {{(65 – 1300 ppm of product)}} {{(25 - 500 ppm total active)}} (16.7 – 336 ppm active Glutaraldehyde, (5 – 98.4 ppm DDAC/ 3.3 – 65.6 ppm ADBAC) (8.3 – 164 ppm total active Quaternary)).

2. **Maintenance dosage:** Add 0.06 – 1.3 gal. of this product per 1,000 gal. {{(0.21 – 4.12 gal. of this product per 100 barrels)}} of freshly prepared fluid {{(65 – 1300 ppm of product)}} {{(25 - 500 ppm total active)}} (16.7 – 336 ppm active Glutaraldehyde, (5 – 98.4 ppm DDAC/ 3.3 – 65.6 ppm ADBAC) (8.3 – 164 ppm total active Quaternary)).

**PACKER FLUIDS:** {{(Not Approved For Use In California)}} 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 – 7.85 gal. of this product per 10,000 gal. {{(0.21 – 12.47gal. of this product per 100 barrels)}} of freshly prepared packer fluid {{(65 – 785 ppm of product)}} {{(25 - 300 ppm total active)}} (16.7 – 202 ppm active Glutaraldehyde) (5 - 59 ppm DDAC/ 3.3 - 39 ppm ADBAC) (8.3 – 98 ppm total active Quaternary)). 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.

**USE AS HYDROGEN SULFIDE SCAVENGER (NON-BIOCIDAL):** {{(Not Approved For Use In California)}} This product may also be used as a hydrogen sulfide scavenger in oil field processing and refining operations. For hydrogen sulfide application, inject 1.31 gal of this product to 1,000 gal. {{(4.12 gal of this product per 100 barrels)}} of water {{(500 ppm total active)}} in target areas on a continuous basis or in slug treatment.

**HYDROTESTING:** {{(Not Approved For Use In California)}} Treat water used to hydrotest pipelines or vessels by adding 0.13 – 5 gal. of this product per 1,000 gal. {{(0.41 - 15.74 gal. of this product per 100 barrels)}} of water {{(130 – 5,240 ppm of product)}} {{(33.6 – 1,285 ppm active Glutaraldehyde)}} (9.8 - 375 ppm DDAC/ 6.6 - 250 ppm ADBAC) (16.4 – 625 ppm total active Quaternary)) depending on the water quality and length of time the equipment will remain idle.

## PULP AND PAPER MILLS

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

**SLIMICIDE APPLICATIONS:** {(Not Approved For Use In California)} 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 0.26 to 52.25 gal. of this product per 100,000 gal. of whitewater {(0.67 – 135 ppm active Glutaraldehyde, 0.33 – 65 ppm active Quaternary)} 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 0.26 to 52.25 gal. of this product per 100,000 gal. of whitewater {(0.67 – 135 ppm active Glutaraldehyde, 0.33 – 65 ppm active Quaternary)} to be treated as necessary to maintain control.

**WATER BASED COATING, PIGMENTS AND FILLER SLURRIES FOR PULP AND PAPERBOARD:** {(Not Approved For Use In California)} 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.

**Dosing Application:** Apply at a rate of 0.13 to 0.79 lbs. of this product per 1,000 lbs. of dry powder or 0.65 to 0.393 kg of this product per metric ton of dry slurry to produce a concentration of 130.9 to 785.3 ppm active as product (based on slurry solids) in the mixed slurry.

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## STORAGE AND DISPOSAL

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

**{PESTICIDE} STORAGE:** This product is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. This product can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. 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 gallons}*

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 gallons}*

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 and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

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.

### {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

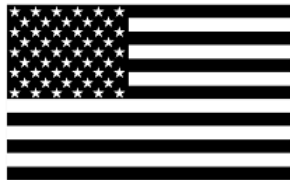
*(Note to Reviewer: These are representative icons for use sites/application methods that may appear on the label with the appropriate directions for use, PPE or package type.)*



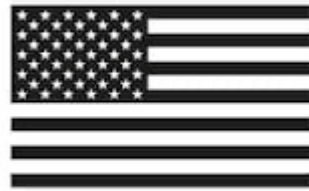
**Children can fall into bucket and drown.**

**Keep children away from bucket with even a small amount of liquid.**

MADE IN



U. S. A.



MADE IN USA



### {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 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 inconsistence con la ley, el uso del product signigica acuerdo con esteas disposiconies.