

# U.S. ENVIRONMENTAL PROTECTION AGENCY

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

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X Registration Reregistration

(under FIFRA, as amended)

EPA Reg.

82760-3

Date of Issuance

Term of Issuance:

### Unconditional

Name of Pesticide Product:

BCS 3502A

Name and Address of Registrant (include ZIP Code):

Bulk Chemical Services, LLC 1303 Boyd Avenue NW Atlanta, GA 30318

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 the 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.

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(5). Please note, you are required to submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data

A stamped copy of your labeling is enclosed for your records.

Signature of Approving Official:

Eric Miederhoff Acting Product Manager (33) Regulatory Management Branch I Antimicrobial's Division (7510P) Date:

AUG 28 2014

EPA Form 8570-6

EPA Reg #82760-3

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If you have questions concerning this matter, please contact Eric Miederhoff (703) 347-8028 or by email at miederhoff.eric@epa.gov

Sincerely,

Eric Miederhoff

Acting Product Manager (33) Regulatory Management Branch I Antimicrobial's Division (7510P)

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Enclosures: (Stamped Label)

# **BCS 3502A**

#### COMMERCIAL MICROBIOCIDE

A microbiocide for controlling slime-forming and sulfate-reducing bacteria, fungi, yeast and algae. For use in sugar beet mills and process water systems; paper mills and associated process water systems; pigments and filler slurries for food and non-food contact paper and paperboard; nonfood contact water based coatings for paper and paperboard; air washers and industrial scrubbing systems; recirculating cooling and process water systems; reverse osmosis membranes; heat transfer systems; service water and auxiliary systems; industrial wastewater systems including wastewater sludge and holding tanks; water-based conveyor lubricants; aqueous metalworking fluids; oil field applications including drilling muds, workover, fracturing, completion and packer fluids; gas production, transmission and storage; preservation of food contact adhesives and mineral slurries used in paper making and preservation of concentrates.

ACTIVE INGREDIENT: Glutaraldehyde INERT INGREDIENTS: TOTAL

50.0% 50.0% 100.0%

# DANGER

| DANGER          |  |  |  |  |
|-----------------|--|--|--|--|
| FIRST AID       |  |  |  |  |
| If in eyes      | Hold eye open and rinse slowly and gently<br>with water for 15-20 minutes.   |  |  |  |
|                 | Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye  |  |  |  |
| -               | Call a poison control center or doctor for treatment advice.   |  |  |  |
| lf on skin      | Take off contaminated clothing.  |  |  |  |
|                 | <ul> <li>Rinse skin immediately with plenty of water<br/>for 15-20 minutes.</li> </ul>   |  |  |  |
|                 | <ul> <li>Call a poison control center or doctor for<br/>treatment advice.</li> </ul>   |  |  |  |
| If swallowed    | <ul> <li>Call a poison control center or doctor for<br/>treatment advice.</li> </ul>   |  |  |  |
|                 | <ul> <li>Have person sip a glass of water if able to<br/>swallow.</li> </ul>   |  |  |  |
|                 | Do not induce vomiting unless told to do so<br>by a poison control center or doctor.   |  |  |  |
|                 | Do not give anything by mouth to an unconscious person.  |  |  |  |
| If inhaled      | Move person to fresh air.  |  |  |  |
|                 | <ul> <li>If person is not breathing, call 911 ot an<br/>ambulance, then give artificial respiration,<br/>preferably by mouth-to-mouth, if possible.</li> </ul> |  |  |  |
|                 | <ul> <li>Call a poison control center or doctor for<br/>treatment advice.</li> </ul>   |  |  |  |
| HOT LINE NUMBER |  |  |  |  |

#### **HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC at 800-535-5053 for emergency medical treatment information.

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage and skin burns. Harmful if inhaled or absorbed through the skin. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Avoid breathing vapors and mists. Not to be used as an aerosol. Do not swallow. Prolonged or frequently repeated skin contact may cause allergic skin reactions in certain individuals. May cause asthmatic signs and symptoms in some hyper-reactive individuals. Wear eye goggles, rubber gloves and protective clothing when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking and using tobacco. Remove contaminated clothing and wash before reuse.

#### **ENVIRONMENTAL HAZARDS**

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 to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment washwaters.

Instructions in Case of Spills or leaks: Wear goggles, rubber gloves, and protective clothing. Absorb spills and leaks with inert material such as sand, clay or vermiculite. Shovel into a sealable container and dispose of in an authorized EPA disposal facility.

In Case of Fire: Use water, carbon dioxide, dry chemical (eg. Sodium bicarbonate) extinguishing medias. Fire fighters should be equipped with self-contained breathing apparatus and turnout gear.

In Case of Chemical Emergency: Call INFOTRAC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-535-5053.

Sold by:



1303 Boyd Avenue NW Atlanta, GA 30318

**EPA REG. NUMBER 82760-03** 

EPA EST. NUMBER: 82760-GA-001

ACCEPTED AUG 28 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No. 52760 - 3

HMIS® H=3\* F=I PH=0 Do not contaminate water, food

BCS 3502A solutions are corro construction such as steel, galv solutions can be stored and hal or reinforced epoxy equipment. 4°F). Therefore, unless the stor insulation may be required. If h should be avoided. For short st tolerated; however, the preferre approximately 80°F. Keep awar centrifugal pump is suggested 1

Pesticide wastes are acutely he spray mixture or rinsate is a vic disposed of by use according to or Environment Control Agency nearest EPA regional office for

Refillable container. Refill this of container for any other purpose the responsibility of the person refilling is the responsibility of the disposal, empty the remaining equipment or mix tanks. Fill the Agitate vigorously or recirculate rinsate into application equipment or the recycling or reconditioning, or the procedures approved by

Consult Federal, State and loca RCRA Hazardous Waste Code

> DI IT IS A VIOLATION OF FE

MANNER INCO

Add BCS 3502A at a point of u recirculated or mixed throughout cleaned before treatment begin (slug dose) or by continuous fe should be below the water line

## AIR WASHERS AND INDUST

Use only in industrial air washe components. Badly fouled syst recommended rate of BCS 350 discontinued for up to 24 hours methods.

Initial Dose: When the system ppm) of BCS 3502A per 1,000 achieved.

Subsequent Dose: When micro ppm) of BCS 3502A per 1,000 to maintain control.

Use only where approved for of immerse membrane in a tank of

BCS 3502A can also be added service osmosis equipment. All the recirculating system and mountered and several mediated

the recirculating system and macounteract and system season before returning to service.

So so the American South State (For use in Evaporative Conder Sterilizers and Rejorts, Pasteu Water Systems,

Initial Dose: When the system ppm) of BCS 3502A per 1,000 Subpequent Dose: For mainter (40-100 ppm) of BCS 3502A p

SERVICE WA

Use in systems such as fire wa cooling water systems. Dose in 3502A per 1,000 gal. of water this concentration.

STORAGE AND DISPOSAL Do not contaminate water, food or feed by storage or

PESTICIDE STORAGE BC\$ 3502A solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic lined steel, stainless steel or reinforced epoxy equipment. This product freezes at approximately -20°C (-4°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage (1 month) temperatures up to 100°F can be tolerated; however, the preferred maximum storage temperature is approximately 80°F. Keep away from fire and open flames. A stainless steel centrifugal pump is suggested for transfer service.

#### 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 Environment Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL

Refillable container. Refill this container with pesticide 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 the container into the application equipment or mix tanks. Fill the 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

#### **GENERAL**

Consult Federal, State and local authorities for approved alternative procedures RCRA Hazardous Waste Code D002.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELLING

#### **GENERAL USE DIRECTIONS**

Add BCS 3502A at a point of uniform mixing where the treated water will be recirculated or mixed throughout the system. Badly fouled systems should be cleaned before treatment begins. BCS 3502A can be applied either intermittently (slug dose) or by continuous feed where stated. Where appropriate, feed points should be below the water line to minimize vapor.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

Use only in industrial air washer systems, which have mist-eliminating components. Badly fouled systems can be shock treated by using the highest recommended rate of BCS 3502A. Under these conditions, blowdown should be discontinued for up to 24 hours. Apply by intermittent or continuous feed

Initial Dose: When the system is noticeably fouled, add 11.5-23.0 fl. oz. (100-200 ppm) of BCS 3502A per 1,000 gal. of water in the system. Repeat until control is

Subsequent Dose: When microbial control is evident, add 4.6-11.5 fl. oz. (40-100 ppm) of BCS 3502A per 1,000 gal. of water in the system per day, or as needed to maintain control.

#### REVERSE OSMOSIS MEMBRANES

Use only where approved for compatibility by the membrane manufacturer. Immerse membrane in a tank containing 2,000 to 20,000 ppm BCS 3502A for 6

BCS 3502A can also be added to in-line recirculating systems of installed out of service osmosis equipment. Add 200 to 2,000 ppm BCS 3502A to the tank on the recirculating system and maintain this concentration by periodic addition to counteract any system leakage, Flush the system through with clean water before returning to service

#### HEAT TRANSFER SYSTEMS

For use in Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Pasteurizers and Warmers, and Once-Through Cooling Water

Systems.

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Initial Dose: When the system is noticeably fouled, add 11.5-23.0 fl. oz. (100-200 ppm) of BCS 3502A per 1,000 gal. of water in the system. Subsequent Dose: For maintenance, use a continuous feed of 4.6-11.5 fl. oz.

(40-100 ppm) of BCS 3502A per 1,000 gal. of water in the system per day.

#### SERVICE WATER AND AUXILIARY SYSTEMS

Use in systems such as fire water reserves, spray paint booths, and emergency cooling water systems. Dose initially at 11.5-23.0 fl. oz. (100-200 ppm) of BCS 3502A per 1,000 gal. of water in the system, Reapply as necessary to maintain this concentration.

#### INDUSTRIAL WASTEWATER SYSTEMS

For use in aerobic and anaerobic, belsludges; and holding tanks. Add 0.5 to per 1,000 gal. of wastewater or sludge.

ed, digested and undigested al. (450 to 2,250 ppm) of BCS 3502A

SUGAR BEET MILLS AND PROCESS WATER SYSTEMS

Apply by intermittent or continuous feed methods. Repeat intermittent dose until control is achieved. The total should not exceed 106 gal. per 1,000 tons of beets sliced per day.

Initial Dose: When the system is noticeably contaminated, add 5.5 to 13.6 fl. oz. (200 to 500 ppm) of BCS 3502A per ton of sliced beets.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fl. oz. (30 to 300 ppm) of BCS 3502A per ton of sliced beets to the system as necessary to maintain control

Not for use in the State of California.

PAPER MILLS AND ASSOCIATED PROCESS WATER SYSTEMS ---Apply by intermittent or continuous feed methods. Initial Dose; When the water is noticeably contaminated, add 0.5-3.0 lbs per ton of pulp or paper (dry basis). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident add 0.3-2.0 lbs per ton to pulp or paper (dry basis) as necessary to maintain control.

#### PIGMENTS AND FILLER SLURRIES FOR FOOD AND NON-FOOD CONTACT PAPER AND PAPERBOARD

To inhibit the growth of spoilage microorganisms during manufacture, storage and distribution of pigments and filler slurries such as kaolin, calcium carbonate and titanium dioxide. Add BCS 3502A to produce a concentration of 100-600 ppm by weight of the formulation slurry (1.0-6.0 lbs of product per 10,000 lbs. of

Apply once during manufacture.

#### WATER BASED COATINGS FOR NON-FOOD CONTACT PAPER AND PAPERBOARD

To inhibit the growth of spoilage microorganisms during manufacture, storage and distribution of water-based coatings for use on non-food-contact paper and paperboard. Add BCS 3502A at 100-600 ppm by weight of the formulation slurry (1.0-6.0 lbs of product per 10,000 lbs of slurry).

#### OIL WELL WATER FLOODS

Initial Dose: Add BCS 3502A at 100-5,000 ppm of the water flood system (0.09-4.5 gal. BCS 3502A per 1,000 gal. floodwater). Add BCS 3502A intermittently until control is achieved.

Subsequent dose: Add 50 to 250 ppm of BCS 3502A (0.05 to 0.25 gal. of BCS 3502A to each 1,000 gal.) each week to maintain bacterial control.

DRILLING MUDS, WORKOVER, FRACTURING AND COMPLETIONS FLUIDS Add 100 to 1,000 ppm BCS 3502A (0.38 to 3.8 gal. BCS 3502A per 100 barrels or 4,200 gal.), depending on the severity of the bacterial contamination. Add additional BCS 3502A to maintain the proper concentration as the total volume of the system increases with the well depth. For workover fluids, circulate the system until the fluid returns clear. Shut the system down and idle for several hours. Remove the workover fluid. This well should be ready for productive use.

#### PACKER FLUIDS

Add BCS 3502A at 50-600 ppm (0.21 to 2.5 gal. per 100 barrels of fluid) to a freshly prepared fluid, depending on the severity of contamination. Apply once before sealing the treated packer fluid in the wall between the casing and production tube

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS Add BCS 3502A to inhibit microbiological growth in gas production or transmission pipelines and systems supplying liquid and natural gas during commercial production. Inject BCS 3502A directly into the transmission pipeline at the earliest available entry point. Add BCS 3502A at a dose rate of 50 to 600 ppm of the water in the system. Injections to the system should be made on a weekly basis, or as needed to maintain control.

#### GAS STORAGE WELLS AND SYSTEMS

Treat individual injection wells with BCS 3502A at 500 to 5,000 ppm and maintain this concentration in the water present in the formation. Treatment of 3333 the well should take place during the summer before gas is injected. Dose individual drips to maintain a concentration of 200 to 2,000 ppm BCS 3502A. Treatment should be repeated yearly, or as needed to maintain control.

## HYDROTESTING

For use in pipelines, valve systems, boilers and vessels. Water used to hydrotest pipelines or vessels should contain 100 to 4,000 ppm (0.1 to 4.0 gal. per 1,009 gal. water) of BCS 3502A, depending on water quality, pH, environmental 5 conditions and the length of time the equipment will remain idle. At neutral pH and below, treated water can remain in the system for more than 1 year.

#### PIPELINE PIGGING AND SCRAPING OPERATION

Add BCS 3502A to the water immediately following the scraper. This water volume can be kept to a minimum and contained between the scraper and trailing pig. Add BCS 3502A at 1,000 to 10,000 ppm (0.1 to 1.0 gal. BCS 3502A per 100 gal, water), depending on the length of the pipeline and the severity of biofouling 2333

For use in brewery, juice, Thoroughly clean tracks at well. Use a commercially a fluid ounces (100 to 600 p

Avoid contamination of foo

Not for use in the State of

Non-food contact For use by manufacturers institutional and consumer bacteria and fungi; for exal concrete admixtures, pigm and cleaning products.
Add BCS 3502A to the pro (200 to 2000 ppm) per 100 uniformly. Food contact

preservation of food-contac papermaking. Not for use in the State of (

For use by manufacturers

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Use in concentrates where Add BCS 3502A at a rate s to 2,000 ppm (.02% to 0.2%

AQUE

BCS 3502A should be adde mixing such as the fluid col intervals of one week or les Initial Dose: When the syste 3502A per 1,000 gal. of me achieved. Subsequent Dose: When m

3502A per 1,000 gal. of me maintain control. Badly foul

Not for use in the State of C

The Directions for Use of th use and tests, The direction carefully. However, it is imp use of this product. Ineffect result because of such fact materials, or use of the pro which are beyond the contr Buyer. The manufacturer w description on the label and

THE MANUFACTURER M WARRANTY OF FITNESS EXPRESS OR IMPLIED W MANUFACTURER BE LIA INDIRECT DAMAGES RES PRODUCT.

The manufacturer offers thi to the foregoing Conditions agreement in writing signed

#### WATER BASED CONVEYOR LUBRICANTS

For use in brewery, juice, dairy, beverage, and food processing systems. Thoroughly clean tracks and conveyors to remove all gross contamination. Rinse well. Use a commercially available automatic feed system to provide 1.4 to 8.4 fluid ounces (100 to 600 ppm) of BCS 3502A per 100 gal. of dilute lubricant.

Avoid contamination of food in application of this product.

Not for use in the State of California.

#### GENERAL PRESERVATION

Non-food contact

For use by manufacturers for in-can preservation of aqueous industrial, institutional and consumer non-food contact products that require the control of bacteria and fungi; for example, mineral slurries used in paints and plastics, concrete admixtures, pigments, lattices, printing inks, paint, laundry detergents, and cleaning products.

Add BCS 3502A to the product formulation at a rate of 2.8 to 28 fluid ounces (200 to 2000 ppm) per 100 gal. of the water content of the product. Mix uniformly.

Food contact

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For use by manufacturers that require the control of bacteria or fungi in the preservation of food-contact adhesives and mineral slurries used in papermaking.

Not for use in the State of California.

#### PRESERVATION OF CONCENTRATES

Use in concentrates where effective preservation is needed after dilution. Add BCS 3502A at a rate such that the diluted end-use product will contain 200 to 2,000 ppm (.02% to 0.2%) of product.

#### AQUEOUS METALWORKING FLUIDS

BCS 3502A should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be added intermittently at intervals of one week or less.

Initial Dose: When the system is noticeably fouled apply 0.2 to 0.6 gal. of BCS 3502A per 1,000 gal. of metalworking fluid to the system, Repeat until control is

Subsequent Dose: When microbial control is evident, add 0.08 to 0.4 gal. of BCS 3502A per 1,000 gal. of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment begins.

Not for use in the State of California.

#### CONDITIONS OF SALE

The Directions for Use of this product reflect the opinion of experts based on field use and tests, The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risk inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of the Seller. All such risks shall be assumed by the Buyer. The manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to above.

THE MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

The manufacturer offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative.

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