



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

EPA Reg. Number:

92513-7

Date of Issuance:

1/4/22

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BioSuite QD50x

Name and Address of Registrant (include ZIP Code):

Michael Gurecki,  
 Biotechnology Group Leader  
 BioSuite, LLC  
 12625 West Airport Blvd  
 SugarLand, TX 77478

**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:

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

Date:

1/4/22

2. You are required to comply with the data requirements described in the DCI Order identified below:
  - a. DDAC GDCI-069149-30869; GDCI-069149-0681

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. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 92513-7.”
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 2/07/2021
- Alternate CSF 1 dated 6/17/2021

If you have any questions, you may contact at [Oiguenblik.emilia@epa.gov](mailto:Oiguenblik.emilia@epa.gov) or [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov)

Enclosure: Stamped label

**ACCEPTED**

01/04/22

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 92513-7

BioSuite QD50x  
EPA Reg. No. 92513-X  
Modified January 3, 2022

## BioSuite QD50x

### ACTIVE INGREDIENTS

Didecyl dimethyl ammonium chlorides.....50.0%

**INERT INGREDIENTS**.....50.0%

**TOTAL** .....100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE {{SIDE}} {BACK}} PANELS 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. Call a poison control center or doctor for treatment advice.

**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 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.

**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.

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. You may also contact the poison control center at 1-800-222-1222 for emergency medical treatment information.

**You may contact 800-424-9300 for chemical, medical, or environmental emergencies.**

EPA REG. NO. 92513-X  
EPA EST. NO. XXXXX-XX-XX

{logo}

BioSuite, LLC  
12625 W. Airport Blvd  
Sugar Land, TX 77478

Net Contents:

### **{MARKETING CLAIMS}**

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

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

{LOCATIONS}

- Drilling, completion, fracturing and workover fluids systems
- Gas/oil recovery injection water systems
- Gas production and transmission pipelines and systems
- Gas storage wells and systems
- Recirculating cooling towers.
- Oil field water flood/salt water disposal systems
- Oil field injection and waste water
- Packer fluid systems
- Pipeline pigging and scraping operations
- Recirculating water systems

### **{WATER TREATMENT MARKETING CLAIMS}**

- Algaecide
- Aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, industrial and commercial cooling towers, and influent systems such as flow through filters and lagoons.
- Aids in the control of bacterial, fungal and algal slimes in retorts water systems.
- A water treatment microbiocide for industrial and/or commercial recirculating cooling water towers, and oil field flood/salt water disposal systems and fracturing fluids.
- 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; sch as steam-injection water holding tanks, flood water, injection water, holding pond water, disposal-well water, water holding tanks, field storage tanks and related refinery and oil field closed systems, industrial recirculating water handling systems.
- Effective against the growth of algae.
- For control of algae, algal, fungal and bacterial slimes in recirculating water systems, auxiliary water and waste water systems and water cooling systems, oil field water flood systems/salt water disposal systems.
- 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, oil field systems, gas production and transmission pipelines and systems.
- Is a water treatment microbiocide that will control algae and bacterial slimes found in recirculating cooling tower waters.
- Kills and prevents algae.
- The residual effectiveness of this algaecide tends to stabilize the total chemical treatment system.
- To control algae and bacterial slimes, use this water treatment microbiocide as directed.

### **GENERAL MARKETING CLAIMS**

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

### **PACKAGING CLAIMS**

- Concentrate{d}.
- 50% Concentration

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

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
{Please read entire label and use strictly in accordance with precautionary statements and directions.}

### WATER TREATMENT

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

#### RECIRCULATING COOLING TOWERS:

**Initial Dose:** add 6 ounces of this product per 1000 gallons of water contained in the system to provide a concentration of 23.5 ppm active quaternary. Repeat every 7 days or sooner should visible growth appear.

**Periodic Dose:** add 2 to 3 ounces of this product per 1000 gallons of water contained in the system (8 to 12 ppm active quaternary) every 7 days or sooner should visible growth appear. 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 product. Apply this product at a point in the system where uniform mixing will take place.

Do not be alarmed with the sudden appearance of organic debris in the system during the first week of operation. This is normal and is a good indication that this product has effectively penetrated and dislodged dead organic material which tenaciously adheres to metal and wooden surfaces as living matter. This debris should be removed from the system to avoid clogging of screens and pipes. When this product is used as directed, it will aid in controlling and/or preventing the development of unsanitary slime conditions that are unsightly, produce foul odors, and which are often the cause of equipment breakdown. This product is compatible with virtually all corrosion inhibition additives, but should not be used in the presence of soap or other anionic detergents. This product at use dilution (8 to 12 ppm active quaternary) is non-corrosive to inanimate hard surfaces.

**{{OIL FIELD}, {GAS PRODUCTION} AND {TRANSMISSION PIPELINE} {AND} {SYSTEMS}}:** This product must be added at 6.5-96 ounces per 1000 gallons of water (25-375 ppm active quaternary) via direct injection to a gas production or transmission pipeline to maintain 50-750 ppm of product. The application should be conducted to ensure maximum distribution of this product through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute this product with an appropriate solvent immediately before use.

Injections must be done on a weekly basis at a minimum, or more frequently as needed to maintain control.

**OIL FIELD WATER FLOOD OR SALT WATER DISPOSAL SYSTEMS:** To control slime forming and sulfate reducing bacteria this product must be added to a water flood system at a point of uniform mixing.

**Initial Treatment:** When the system is noticeably contaminated, add 50-750 ppm of this product (25-375 ppm active quaternary) (6.5-96 ounces per 1000 gallons of flood water). Repeat until control is achieved.

**Continuous Dose:** Add 50-750 ppm of this product (6.5-96 ounces per 1000 gallons of water) (4.75-71 gallons per 3000 barrels of water) (25-375 ppm active quaternary). Levels for effective control will vary depending on conditions at the site.

**Intermittent Dose:** Add 100-750 ppm of this product (13-96 ounces per 1000 gallons of water) (9.5-71 gallons per 3000 barrels of water) (50-375 ppm active quaternary) for 4-8 hours per day, 1-4 times per week as needed to maintain control.

Add this product directly from the drum with the proper type of metering equipment

**GAS/OIL RECOVERY INJECTION WATER SYSTEMS:** To control slime forming and sulfate reducing bacteria (*Desulfovibrio desulfuricans*) this product must be added to an injection water system at a point of uniform mixing.

**Initial Treatment:** When the system is noticeably contaminated, add 50-750 ppm of this product (25-375 ppm active quaternary) (6.5-96 ounces per 1000 gallons of flood water). Repeat until control is achieved.

**Continuous Dose:** Add 50-750 ppm of this product (6.5-96 ounces per 1000 gallons of water) (4.75-71 gallons per 3000 barrels of water) (25-375 ppm active quaternary). Levels for effective control will vary depending on conditions at the site.

**Intermittent Dose:** Add 100-750 ppm of this product (13-96 ounces per 1000 gallons of water) (9.5-71 gallons per 3000 barrels of water) (50-375 ppm active quaternary) for 4-8 hours per day, 1-4 times per week as needed to maintain control.

Add this product directly from the drum with the proper type of metering equipment

**OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS:** This product must be added at 6.5-96 ounces per 1000 gallons of water (25-375 ppm active quaternary) via direct injection to a gas production or transmission pipeline to maintain 50-750 ppm of product. The application should be conducted to ensure maximum distribution of (this product or product name) through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute (this product or product name) with an appropriate solvent immediately before use. Injections must be done on a weekly basis at a minimum, or more frequently as needed to maintain control.

**GAS STORAGE WELLS AND SYSTEMS:** Individual injection wells must be treated with a sufficient quantity of this product by adding 57.5-173 ounces per 1000 gallons of water (225-675 ppm active quaternary) to produce a concentration of 450-1350 ppm of product when diluted by the water present in the formation.

**PIPELINE PIGGING AND SCRAPING OPERATIONS:** Add this 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 the trailing pig). Sufficient (product or trade name) should be added to produce a concentration of 0.1-3% (0.1-3 gallons per 100 gallons of water) depending on the length of pipe and the severity of bio-fouling.

**DRILLING, COMPLETION, FRACTURING 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.

**Initial treatment:** Add 150 – 750 ppm of this product (75 – 375 ppm active quaternary) to freshly prepared fluid.

**Maintenance dosage:** Add 150 – 750 ppm of this product (75 – 375 ppm active quaternary) to freshly prepared fluid.

**PACKER FLUIDS:** This product is to be added to the packer fluid at a point of uniform mixing such as a circulating holding tank {and} {other mixing device locations}. Add 150 - 750 ppm of this product to a freshly prepared fluid. Levels for effective control vary depending on conditions at the site and the severity of contamination. Seal the treated packer fluid in the wall between the casing and the production tube.

## STORAGE AND DISPOSAL

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

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

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use

according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

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

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

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

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

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.**

**KEEP OUT OF REACH OF CHILDREN.**

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if Inhaled. Do not breathe vapor or spray mist. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear such as goggles, face shield or safety glasses. Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filter. Wear coveralls worn over long-sleeve shirt and long pants, socks, chemical-resistant footwear, chemical-resistant gloves, and chemical-resistant apron. 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**

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.

**PHYSICAL OR CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame.