

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.  
65020-12

DATE OF ISSUANCE  
FEB 10 1993

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

BioSentry 504

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

BioSentry, Inc  
1481 Rock Mountain Blvd  
Stone Mountain, GA 30083

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

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

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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

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

1. Submit/cite all data required for registration/ reregistration of your product under FIFRA section 3(c) (5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

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

a. Add the phrase "EPA Registration No. 65020-12".

b. Just a reminder that the storage and disposal statements may be inadequate for the larger size containers (larger than one gallon) you propose.

c. The correct nomenclature for the first active ingredient is:

Didecyl dimethyl ammonium chloride.

Note: The ingredient is four separate words.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

d. Delete the word: First Aid

e. Delete the statement: Measures against circulatory shock, respiratory depression and convulsions may be needed.

f. Delete the word: milk

g. Revise the following precautionary statement (page 7):

Avoid getting in eyes or on skin. In case of contact, wash thoroughly with water. If irritation persists get medical attention. Harmful if swallowed.

to read:

Corrosive. Causes severe eye and skin damage. Do not get into eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

h. Revise the referral statement to read:

See back panel for additional precautionary statements

i. Based upon the flashpoint provided, add the following additional precautionary statements:

Physical or Chemical Hazards  
Do not use or store near heat or open flame.

j. Revise the statement "...when solution becomes visibky dirty"  
to read "...when solution becomes diluted or soiled.

k. Delete the claims against:

Salmonella schottmuelleri  
Brevibacterium ammoniagenes  
Brucella abortus

since no support data was submitted for these organisms.


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

A stamped copy of the label is enclosed for your records.

Sincerely,

John H. Lee   
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosures

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

# BioSentry™ 904

**POULTRY HATCHERY  
DISINFECTANT**

**FARM PREMISE**

**DISINFECTANT**

**VETERINARY AND ANIMAL**

**CARE DISINFECTANT**

**EFFECTIVE IN 400 PPM HARD WATER AS  
(CaCO<sub>3</sub>) DISINFECTS IN 5% ORGANIC  
SOIL LOAD**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

**FEB 10 1993**

**ACTIVE INGREDIENTS:**

- Didecyldimethylammonium chloride ... 9.2%
- Alkyl (C<sub>12</sub>, 61%; C<sub>14</sub>, 23%; C<sub>16</sub>, 11%;  
(C<sub>18</sub>, 2.5%; C<sub>8</sub> & C<sub>10</sub>, 2.5%) dimethyl benzyl  
ammonium chloride ... 9.2%
- Alkyl (C<sub>12</sub>, 40%; C<sub>14</sub>, 50%; C<sub>16</sub>, 10%)  
dimethyl benzyl ammonium chloride ... 4.6%
- bis-n-tributyltin oxide ... 1.0%
- INERT INGREDIENTS:** .. 76.0%

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered for use as a disinfectant under EPA Reg. No. 65020-12

**BACTERICIDE, FUNGICIDE, VIRUCIDE\***

\*See back panel for specific claims

For chicken, turkey, duck, quail, goose, ostrich and other avian hatcheries.

For poultry, swine and livestock premises.

For Veterinary, Laboratory Animal, Kennel and Animal Breeder facilities.

**'KEEP OUT OF REACH OF CHILDREN  
DANGER**

(See back panel for Statement of Practical Treatment and additional precautionary statements.)

Manufactured by BioSentry, inc. Stone Mountain GA 30083 USA

Net Contents: \_\_\_\_\_

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**BioSentry 904**

- \* is a complete, chemically balanced disinfectant providing clear use solutions even in hard water.
- \* kills a broad range of gram-negative and gram-positive bacteria, fungi and viruses associated with the avian hatching industry, poultry, swine and livestock premises, laboratory animal facilities and kennels. (See antimicrobial efficacy chart on back label panel).
- \* is a residual bacteriostat and inhibits bacterial growth on moist surfaces.
- \* contains sequestering agents, to prevent the precipitation of minerals and metals from hard water.
- \* contains rust and corrosion inhibitors.
- \* deodorizes by killing most microorganisms that cause offensive odors.
- \* contains no perfume to mask or hide any odors that might exist.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

**FEB 10 1993**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
**65020-12**

**DIRECTIONS FOR USE**

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

**DIRECTIONS FOR USE IN AVIAN HATCHERIES**

**FOR DISINFECTING PRECLEANED SURFACES:** Use BioSentry 904 to disinfect precleaned surfaces including hatching trays, racks, egg flats, walls, floors, ceilings and other surfaces in the hatchery environment. It is also excellent for chick boxes, egg cases, vans and trash containers.

Preclean the surface to be disinfected with BioSentry 453™ or another compatible BioSentry hatchery cleaner. Rinse and if possible let surfaces dry. Then, apply BioSentry 904 at 1/2 ounce per gallon by immersion, by flowing solution over treated surfaces by use of a soft coarse spray, or with a clean mop, cloth or through a foaming apparatus. Thoroughly wet surfaces. Surfaces should remain moist for 10 minutes for complete disinfection. Do not rinse. Leave treatment on treated surfaces to maintain a bacteriostatic effect on moist surfaces.

**NOTE:** Do not spray BioSentry 904 disinfecting solutions unless workers are protected from breathing the spray mist.

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**SANITIZING HATCHERY ROOMS USING THE BIOSENTRY FOGGER 185 OR**

**agMISTER:** Close room off so fog is confined to room to be treated. Mix one (1) part BioSentry 904 to five (5) parts water. (1/2 gallon BioSentry 904 to 2.5 gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting on maximum output, fog for one (1) minute for each 4,000 cubic feet of space in the room with the BioSentry Fogger 185. If using the agMister, fog for 3 minutes for each 4,000 cubic feet of space in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Normally this is 1-4 hours in this environment.

**NOTE:** The fog generated by the BioSentry Fogger 185 and the agMister is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-4 hours after the actual fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 10 1993

With the Dept. of Insectfield  
Fungicide, and other...  
EPA... for the...  
approved under EPA...

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**SANITIZING INCUBATORS AND HATCHERS BY FOGGING:** Prepare a stock solution of 6 ounces BioSentry 904 to 122 ounces water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments approximately 24 hours prior to pulling the hatch. Do not allow people to contact or breathe this fog and do not enter machines until the fog has settled (30-60 minutes after fogging is completed). To do this, install permanent fogging nozzles in setters and hatchers and use an air compressor to disperse the sanitizing solution as a fog. Contact your BioSentry Technical Representative if you need assistance.

It is also satisfactory to fog setters and hatchers with a 1/2 ounce per gallon solution of BioSentry 904. If this is done, fog for 30-90 seconds once per hour or once every two hours. Contact your BioSentry Technical Representative for assistance.

**DISINFECTING CHICK VANS, EGG TRUCKS, HATCHERY AND FARM VEHICLES:**

Clean and rinse vehicles and disinfect with 1/2 ounce per gallon BioSentry 904. If desired, rinse after 10 minutes contact or leave unrinsed.

Do not use BioSentry 904 on vaccination equipment, needles or diluent bottles as the residual germicide may render the vaccines ineffective.

BioSentry 904 should not be mixed with other cleaning or disinfecting compounds or products.

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### DIRECTIONS FOR USE ON POULTRY, SWINE AND LIVESTOCK FARMS

**GENERAL FARM DISINFECTANT USES:** (1/2 ounce per gallon) (a) Remove all livestock and feeds from premises, trucks, coops or crates to be treated. (b) Remove all litter, bedding and manure from floors, walls and surfaces of facilities traversed or occupied by animals. (c) Empty all feeding devices and watering appliances. (d) Clean all surfaces with water or water and a compatible detergent. (e) Saturate all surfaces with this product diluted at 1/2 ounce per gallon of water using a brush, cloth, mop or mechanical spraying device. Small items (forks, shovels, scrapers) may be immersed. Treated surfaces must remain moist for at least 10 minutes for proper germicidal action. (f) Ventilate buildings, trucks, coops and other closed spaces. Do not house livestock or use equipment until treatment has thoroughly dried. (g) Thoroughly scrub treated feeding and watering equipment with detergent and rinse with potable water before reuse.

**VEAL CALVING, HOG, CATTLE AND HORSE OPERATIONS:** Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles, ventilation equipment, utensils and other environmental surfaces may be required. Flush soils from these areas and clean and disinfect with 1/2 ounce per gallon of BioSentry 904. Take care to avoid disinfectant use solution contact with animals, feed, feed equipment, water or watering devices. If spray contacts feeders or waterers, them and rinse well with potable water before they are reused.

**BOOT BATH:** Use 1 ounce per gallon in boot baths. Change solution daily and anytime it becomes visibly soiled. Use a nylon bristled brush to clean soils from boots.

### SANITIZING POULTRY HOUSES AND LIVESTOCK BUILDINGS USING BIOSENTRY 904 THROUGH THE BIOSENTRY FOGGER 185:

After the house has been depopulated and cleaned as in (a)(b)(c) and (d) under "General Farm Disinfectant Uses", double check to be sure all people, poultry, livestock and pets have vacated the building. Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible. Mix one (1) part BioSentry 904 with two (2) parts water in the reservoir of the BioSentry Fogger 185 or agMister. With the setting on maximum output, fog the treatment into the room or building to be sanitized. (Use a total of one (1) gallon of BioSentry 904 for each 6000-8000 square feet of floor space. If the area is more than 25 feet high, use two (2) gallons per 6000-8000 square feet of floor space. In multi-story buildings, the application must be repeated for each floor that is to be sanitized. The fogger itself may be placed just inside the door of the building to be treated, or the nozzle of the fogger may be inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle. After fogging, the building should be kept closed for twenty-four hours. After twenty-four hours the fog should have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four hours before it is repopulated with poultry or livestock.

ACCEPTED  
WITH COMMENTS  
EPA Letter Dated  
**FEB 10 1993**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
and amended for the pesticide  
registered under EPA Reg. No.  
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**NOTE:** The fog generated by the BioSentry Fogger 185 and the agMister is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 2-4 hours after the actual fogging. If the building or room must be entered, before the fog completely settles, then the individual entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.

**DIRECTIONS FOR USE IN VETERINARY CLINICS, ANIMAL CARE FACILITIES,  
ANIMAL RESEARCH CENTERS, ANIMAL BREEDING FACILITIES,  
KENNELS AND ANIMAL QUARANTINE AREAS.**

BioSentry 904 is a one-step germicide, fungicide, soapless cleaner and deodorant effective in the presence of organic soil (5% serum). It is non-selective and, when used as directed, will not harm tile, terrazo, resilient flooring, concrete, painted or varnished wood, glass or metals.

ACCEPTED  
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FEB 10 1993  
Under the Federal Insecticide,  
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65020-12

- \* To clean and disinfect hard surfaces, use 1/2 ounce of BioSentry 904 per gallon of water. Apply by immersion, flushing solution over treated surfaces or with a mop, sponge, cloth or bowl mop to thoroughly wet surfaces. Prepare fresh solutions daily or when solution becomes visibly dirty.
- \* To clean badly soiled areas, use up to 1 1/2 ounce per gallon of water.
- \* To disinfect, allow treated surfaces to stand for at least 10 minutes before wiping or rinsing.
- \* To control mold and mildew growth on previously cleaned, hard nonporous surfaces, use 1/2 ounce per gallon. Allow to dry without wiping. Reapply as new growth appears.

**BROAD SPECTRUM GERMICIDAL ACTION IN HARD WATER AND UNDER SOIL LOAD CONDITIONS:** At 1/2 ounce per gallon (1:256) in official AOAC Use Dilution and Fungicidal Tests, BioSentry 904 is effective in water up to 400 ppm hardness (as CaCO<sub>3</sub>) and an organic soil load of 5% serum against the following organisms:

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### BACTERIA

Pseudomonas aeruginosa ATCC 15442  
Salmonella choleraesuis ATCC 10708  
Enterobacter aerogenes ATCC 63809  
Pasteurella multocida ATCC 7707  
Shigella dysenteriae ATCC 13313  
Klebsiella pneumoniae ATCC 4352  
Enterococcus faecium ATCC 6569  
 (Streptococcus faecalis)  
~~Salmonella typhimurium ATCC 14028~~  
Salmonella gallinarum ATCC 9184  
Bordetella avium ATCC 35086  
Shigella sonnei ATCC 29930  
Proteus morganii ATCC 25830

Staphylococcus aureus ATCC 6538  
Salmonella enteritidis ATCC 4931  
Streptococcus pyogenes ATCC 9547  
~~Streptococcus pneumoniae ATCC 49619~~  
Escherichia coli ATCC 11229  
Alcaligenes faecalis ATCC 8748  
~~Streptococcus pneumoniae ATCC 49619~~  
Serratia marcescens ATCC 264  
Proteus mirabilis ATCC 25933  
Salmonella typhosa ATCC 6539  
Streptococcus agalactiae ATCC 27916  
Salmonella pullorum ATCC 9120

### FUNGI

Aspergillus fumigatus ATCC 10894  
Trichophyton mentagrophytes var. interdigitale ATCC 9533  
Candida albicans ATCC 18804

### VIRUSES

Using accepted virus propagation and hard surfaces test methods, BioSentry 904 is effective at 1:256 in 400 ppm hard water and 5% serum against the following viruses and Mycoplasma sp.

Avian laryngotracheitis ATCC VR-783  
Canine parvovirus ATCC VR-953  
Infectious bronchitis ATCC VR-22  
Infectious bursal disease (Gumboro) ATCC VR-478  
Mycoplasma gallisepticum ATCC 15302

Mycoplasma iners ATCC 19705  
Newcastle's disease ATCC VR-109  
Parainfluenza ATCC VR-281  
Pseudorabies ATCC VR-135  
Transmissible gastroenteritis ATCC VR-763

**STORAGE AND DISPOSAL:** Store only in original container. Keep container closed when not in use. Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. Rinse thoroughly before discarding in trash.

ACCEPTED  
 with COMMENTS  
 in EPA Letter Dated  
**FEB 10 1993**  
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**65020-12**

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER  
KEEP OUT OF REACH OF CHILDREN**

Avoid contact with food and food products. Avoid getting in eyes or on skin. In case of contact, wash thoroughly with water. If irritation persists get medical attention. Harmful if swallowed.

**STATEMENT OF PRACTICAL TREATMENT (FIRST AID):** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If ingested, drink promptly a large quantity of milk, raw egg whites, gelatin solution, or if these are not available, drink a large quantity of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

EPA REG.NO. 65020-  
EPA EST.NO. 65020-GA-1

ACCEPTED  
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Fungicide, and Herbicide Act  
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65020-12

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