

211-50

4-28-2003

1/9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 28 2003

Mr. Paul J. Nobrega  
Director, Regulatory Services  
Central Solutions, Inc.  
P.O. Box 15276  
Kansas City, KS 66115

Subject: Q5.5-5NPB-2.5HW  
EPA Registration No. 211-50  
Application Date: 1/20/03  
Receipt Date: 1/29/03

Dear Mr. Nobrega:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with comments:

Revision of First Aid Statements to comply with EPA PR Notice 2001-1

GENERAL COMMENTS

1. On page 8 of 8 on the label add the following statement to the "Dressing Plant Use", "Cover or remove all food and packaging materials. Remove all heavy soil prior to application".
2. On page 8 of 8, beside "Farm Premise", insert "Veterinary Hospitals".

A stamped copy of the accepted labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Zenobia Jones at (703) 308-6198.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Mangement Branch 1

CONCURRENTS Microbial Division (7510C)

SYMBOL	7510C							
SURNAME	Z. Jones							
DATE	4-24-03							

2/9

(Administrative Note: The following text is required for all labeling, regardless of target market)

# Q5.5-5.5NPB-2.5HW

**DISINFECTANT - CLEANER - SANITIZER - FUNGICIDE  
MILDEWSTAT - VIRUCIDE\* - DEODORIZER**

EFFECTIVE IN HARD WATER UP TO 400 PPM HARDNESS (CALCULATED AS CaCO3)  
IN THE PRESENCE OF 5% SERUM CONTAMINATION

**Active Ingredients:**

Octyl decyl dimethyl ammonium chloride.....	1.65%
Dioctyl dimethyl ammonium chloride.....	0.825%
Didecyl dimethyl ammonium chloride.....	0.825%
Alkyl (C <sub>14</sub> : 50%; C <sub>12</sub> : 40%, C <sub>16</sub> : 10%) dimethyl benzyl ammonium chloride.....	2.20%

<b>Inert Ingredients</b> .....	<u>94.50%</u>
<b>Total:</b>	<b>100.00%</b>

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
**Keep Out of Reach of Children**

## DANGER

**Central Solutions, Inc.**  
3130 Brinkerhoff Road  
Kansas City, KS 66115

EPA Reg. No. 211-50  
EPA Est. No. 211-KS-1

NET CONTENTS: X GALLONS

(Administrative Note: The following text is optional on front panel labeling for the human health care market):

Whirlpool Cleaner Designed for Hospital, Nursing Home, and Institutional Use  
Whirlpool Cleaner Designed for Health Care Institutions  
Formulated for Whirlpool Bathing Systems  
Formulated for Hospitals and Long-Term Care Facilities  
Whirlpool Cleaner

\*\*Non-Critical Medical Device Uses

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
**APR 28 2013**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, and under the authority  
delegated to the Administrator, No. 211/50

3/9

(Side Panel)

(Administrative Note: The following text is required for all labeling, regardless of target market)

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

## DANGER

Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles/face shield, rubber gloves, and protective clothing. Harmful if absorbed through skin. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with plenty of water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to this person.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>HOTLINE NUMBER</b> For emergency medical advice, call your local poison control center or a doctor Have the product container or label with you when seeking medical advice or treatment.	
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.	

(Administrative Note: The First Aid Statement's grid format will be used if market label space permits; otherwise, a paragraph format will be use)

(Administrative Note: The "Environmental Hazards" statement is required only on container sizes of 5 gallons or greater):

### ENVIRONMENTAL HAZARDS

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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This product is toxic to fish and aquatic organisms.

### STORAGE AND DISPOSAL

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

**STORAGE** – Store in a securely closed original container in areas inaccessible to children. Store in an area that will prevent cross-contamination of other pesticides, fertilizer, food, and feed. Avoid storage at temperature extremes or in sunlight.

**PESTICIDE DISPOSAL** – Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides is in violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL** – Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 28 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 211-50

4/9

(Administrative Note: The following text is optional for labeling destined for the human health care and/or institutional markets)

**Q5.5-5.5NPB-2.5HW**

**DISINFECTANT-CLEANER-SANITIZER-FUNGICIDE  
MILDEWSTAT-VIRUCIDE\*-DEODORIZER-WHIRLPOOL CLEANER**

Effective in Hard Water up to 400 ppm Hardness (Calculated as CaCO3) In the Presence of 5% Serum Contamination

Formulated for Effective Health Care Facility Sanitation  
Formulated for Use in Whirlpool Bathing Systems  
Designed for Hospital, Nursing Home, and Institutional Use  
Formulated for Use in Long-Term Care Facilities  
Formulated for Use on Non-Critical Medical Devices\*\*

Formulation designed to clean and disinfect inanimate hard surfaces on (Administrative Note: Manufacture's Brand Tub Name Inserted Here) fiberglass, stainless steel, chrome plated and/or acrylic bathing and physical therapy equipment such as whirlpools and patient transfer equipment.

**PRODUCT COMPOSITION**

Q5.5-5.5NPB-2.5HW contains four highly active quaternary ammonium compounds (listed as active ingredients) for bactericidal efficacy. Inert ingredients include a balance of alkaline builders, nonionic surfactants, and odor counteractants to enhance the cleaning and odor control characteristics.

When used as directed, Q5.5-5.5NPB-2.5HW has been found effective for use on fiberglass, stainless steel, and chrome plated exposed surfaces of Central Solutions' bath, therapy and patient transfer equipment.

For cleaning Central Solution's bath and therapy equipment: To remove body oils, dead tissue, hard water and all other buildups of organic matter on inanimate surfaces, apply Q5.5-5.5NPB-2.5HW in a dilution of one part Q5.5-5.5NPB-2.5HW to three parts water. Clean equipment with this dilution according to procedures recommended by Central Solutions and rinse thoroughly with clear water.

Q5.5-5.5NPB-2.5HW is a phosphate free, germicidal-detergent effective in 10 minutes at 20 degrees Celsius, in hard water and in the presence of 5% blood serum, used to simulate organic soil. Q5.5-5.5NPB-2.5HW's multi-chain quaternary formula is designed to clean, disinfect and deodorize any washable, inanimate, non-porous surface in one easy step. When used as directed, Q5.5-5.5NPB-2.5HW is strong enough to kill a broad spectrum of pathogenic bacteria, yet it is mild enough to have no harmful effects on the surface being disinfected, when used as directed.

Q5.5-5.5NPB-2.5HW is a dilutable, one-step disinfectant cleaner formulated for use in hospitals, nursing homes, medical and dental clinics, laboratories, emergency rooms, ambulances & patient transfer vehicles, and other health care institutions that are dedicated to controlling the hazards of cross contamination in their establishments.

Q5.5-5.5NPB-2.5HW may be used to clean and disinfect non-critical medical devices and equipment such as examination tables and chairs, whirlpool baths, stretchers, patient lifts and scales, walkers, canes, crutches, monitors, stands, carts, cabinets, wheelchairs, patient bed frames, lights, x-ray equipment, therapy tables, and other non-critical medical devices.

Q5.5-5.5NPB-2.5HW is a dilutable one-step disinfectant cleaner for use in laboratories, police vehicles, prisons and jails, funeral homes, schools, hotels, motels, restaurants, day care facilities, offices, veterinary clinics, animal shelters, kennels, restrooms, and other commercial, industrial, and institutional facilities who have a need to control microbial contamination.

Q5.5-5.5NPB-2.5HW may be used to clean and disinfect hard, non-porous, inanimate surfaces such as walls, floors, tables, chairs, counter tops, sinks, tile, porcelain, bed frames, toilets, urinals, tubs, showers, cabinets, door handles, light switch covers, lockers, desks, file cabinets, and other hard, nonporous surfaces that need to be cleaned and disinfected.

Q5.5-5.5NPB-2.5HW is a germicidal detergent formulated for use where broad spectrum disinfection is required in the presence of moderate amounts of organic soil.

Q5.5-5.5NPB-2.5HW is a proven "one-step" disinfectant-cleaner-sanitizer-fungicide-mildewstat-virucide\* which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.

Q5.5-5.5NPB-2.5HW is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\*, fungicidal, and will prevent the growth of mold and mildew and their odors when used as directed.

When used as directed, Q5.5-5.5NPB-2.5HW will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**APR 28 2003**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No 211-50**

5/9

(Administrative Note: The following text is required for labeling destined for the human health care and/or institutional markets)

**DIRECTIONS FOR USE**

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

**DISINFECTION:**

For broad spectrum disinfection of gram negative and gram positive bacteria, including *Pseudomonas aeruginosa* and *Staphylococcus aureus*, add two ounces Q5.5-5.5NPB-2.5HW to one gallon of water. Remove heavy soil or gross filth from the surface to be disinfected, then apply properly diluted solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet the surface thoroughly. Allow to remain wet for 10 minutes and then let air dry. If higher detergency is desired, increase dilution to 4 to 6 ounces per gallon of water. Prepare a fresh solution for each use or when solution becomes visibly dirty.

To disinfect hard, non-porous, inanimate surfaces (such as fiberglass and stainless steel tubs and chair surfaces, chrome plated intakes and lifts, etc.), apply properly diluted Q5.5-5.5NPB-2.5HW detergent/disinfectant so as to wet all surfaces thoroughly. For routine disinfection, proper dilution is 1:64 (2 ounces of product per gallon of water). Allow to remain wet for 10 minutes, then let air dry. For heavily soiled areas, a pre-cleaning step is required and recommended. Prepare a fresh solution for each use as above.

At two ounces to the gallon of water Q5.5-5.5NPB-2.5HW is also fungicidal against *Trichophyton mentagrophytes* (the athlete's foot fungus) in use areas such as shower room floors, locker room benches, bathmats, or any other hard non-porous, inanimate environmental surfaces.

**\*\*Non-Critical Medical Device Uses**

Q5.5-5.5NPB-2.5HW is a general purpose disinfectant that may be used to clean and disinfect hard, non-porous, inanimate, non-critical medical and dental equipment surfaces. Q5.5-5.5NPB-2.5HW may also be used to clean and/or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

(Administrative Note: The following text is required for labeling with sanitization claims):

**SANITIZING**

To sanitize non-porous, non-food contact surfaces, add 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water. Remove heavy soil or gross filth from the surface to be disinfected, then apply properly diluted solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet the surface thoroughly. Allow to remain wet for 30 seconds and then let air dry.

(Administrative Note: The following text is optional for labeling destined for the human health care and/or institutional markets)

**FOR CLEANING (Administrative Note: Manufacturer's Brand Tub Name Inserted Here) BATH AND THERAPY EQUIPMENT:** After using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add two ounces of Q5.5-5.5NPB-2.5HW for each gallon of water in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chairlift, and any/all related equipment with a clean swab or sponge. After the unit has been thoroughly cleaned, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for re-use.

(Administrative Note: The following text is required for labeling on products used to clean and/or disinfect toilet bowls and/or urinals):

To clean and disinfect toilet bowl and urinal surfaces, flush toilet or urinal, add 2 ounces of Q5.5-5.5NPB-2.5HW directly to the bowl or urinal tap water. Swab the bowl and/or urinal surface completely using a bowl swab or brush, making certain to get under and rims. Let stand for 10 minutes and flush.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 28 2003  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No. 211-50

6/9

(Administrative Note: The following text is required for labeling destined for the human health care and/or institutional markets)

**EFFICACY PERFORMANCE**

The broad spectrum efficacy of Q5.5-5.5NPB-2.5HW has been confirmed using A.O.A.C. protocol testing, as is required by the EPA, at a use-dilution of 1:64 in water up to 400 ppm hardness in the presence of 5% blood serum (used to simulate organic soil load), at 20 degrees Celsius with an exposure time of 10 minutes.

**GERMICIDAL**

Q5.5-5.5NPB-2.5HW is effective against a broad spectrum of Gram positive and Gram negative pathogens as confirmed against *Salmonella choleraesuis*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* by the AOAC Use Dilution Confirmation test.

At a 2 oz. per gallon use-level, the broad spectrum activity of Q5.5-5.5NPB-2.5HW has been evaluated and found to be effective against the following organisms by the A.O.A.C. Use-Dilution test: *Pseudomonas aeruginosa*, *Enterobacter aerogenes*, *Staphylococcus aureus*, *Streptococcus faecalis*, *Salmonella choleraesuis*, *Shigella dysenteriae*, *Escherichia coli*, *Brevibacterium ammoniagenes*, *Streptococcus pyogenes*, *Salmonella typhi*, *Klebsiella pneumoniae*, *Serratia marcescens*, *Methicillin resistant Staphylococcus aureus (MRSA)*

**FUNGICIDAL**

When used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, and exercise facilities, Q5.5-5.5NPB-2.5HW's fungicidal efficacy has been confirmed, at 2 oz. per gallon use-level, through testing using the AOAC Fungicidal Test against the following pathogenic fungi: *Trichophyton mentagrophytes* (the athlete's foot fungus)

**MOLD AND MILDEW CONTROL**

At 2 oz. per gallon use level, Q5.5-5.5NPB-2.5HW will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat when mildew growth returns.

**VIRUCIDAL PERFORMANCE**

At 2 oz. per gallon use-level, Q5.5-5.5NPB-2.5HW was evaluated and found to be effective against the following viruses on inanimate environmental surfaces: *Influenza A2 / Brazil*, *HIV-1 (AIDS Virus)*

\*KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type-1 (HIV-1) (associated with AIDS).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV ON SURFACES / OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** Disposable gloves should be worn when cleaning blood, body fluids or contaminated items. Hands should be washed immediately and thoroughly after gloves are removed, or if hands are contaminated with blood or body fluids. Masks and protective eyewear or faceshields should be worn during cleaning procedures involving blood or body fluids. Gowns or aprons should be worn during cleaning procedures for protection against splashes of blood or other body fluids.

**CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant. After cleaning is complete, follow disinfection directions described previously.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

**CONTACT TIME:** Leave surface wet for ten minutes.

(Administrative Note: The following text is required for labeling with sanitization claims):

**SANITIZING NON-FOOD CONTACT SURFACES** (such as floors, walls, tables, etc.)

At 1 ounce per 2 1/4 gallon use-level, Q5.5-5.5NPB-2.5HW is an effective sanitizer on non-porous, non-food environmental surfaces against the following organisms: *Staphylococcus aureus*, *Klebsiella pneumonia*

(or)

When diluted at 2 ounces per one gallon of water in the presence of 400 ppm hard water for a contact time of 30 seconds at room temperature, Q5.5-5.5NPB-2.5HW is an effective sanitizer on non-porous, non-food environmental surfaces against the following organisms: *Staphylococcus aureus*, *Enterobacter aerogenes*

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 28 2003

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

211-50

7/9

(Administrative Note: The following text is required for labeling destined for mushroom farm markets)

**Q5.5-5.5NPB-2.5HW**  
GERMICIDAL-DETERGENT WITH ORGANIC SOIL TOLERANCE.  
FORMULATED FOR MUSHROOM FARM SANITATION

Q5.5-5.5NPB-2.5HW effectively kills fungi and bacteria which prove dangerous to mushroom crops.

DO NOT APPLY TO MUSHROOM CROP. DO NOT APPLY TO COMPOST OR CASING.  
\*USE ONLY AS DIRECTED\*

**EFFICACY PERFORMANCE**

The broad spectrum efficacy of Q5.5-5.5NPB-2.5HW has been confirmed using A.O.A.C. protocol testing, as is required by the EPA, at a use dilution of 1:64 (two ounces per gallon of water) in water up to 400 ppm hardness in the presence of 5% blood serum (used to simulate organic soil load) at 20 degrees Celsius with an exposure time of 10 minutes.

**GERMICIDAL:** Q5.5-5.5NPB-2.5HW has been tested and found effective against bacteria detrimental to the mushroom crop including:  
*Pseudomonas fluorescens* (Biotype G)...(Bacterial Blotch Disease)  
*Pseudomonas aeruginosa*.....(Mummy Disease)

In addition, Q5.5-5.5NPB-2.5HW is effective against the broad spectrum of Gram positive and Gram negative pathogens as confirmed against *Salmonella choleraesuis*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* by the AOAC Use Dilution Confirmation Test in water up to 400 ppm hardness and in the presence of 5% organic soil load at 20 degrees Celsius with an exposure time of 10 minutes.

**FUNGICIDAL:** Fungi specific to the mushroom industry which Q5.5-5.5NPB-2.5HW has been tested against and found effective include:  
*Verticillium fungicola*.....(Verticillium disease, Brown spot or Fungus spot)  
*Mycogone perniciosa*.....(Mycogone disease or Wet bubble)  
*Tricoderma viride*.....(Tricoderma spot, Tricoderma blotch, Tricoderma mildew, Green mold)  
*Dactylium dendroides*...(Hypomyces mildew, Cobweb, Soft decay)

Q5.5-5.5NPB-2.5HW's fungicidal efficacy has also been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi *Trichophyton mentagrophytes*.

**General Information**

Q5.5-5.5NPB-2.5HW is a phosphate free, germicidal detergent effective in hard water in the presence of moderate amounts of organic soil on a variety of surfaces found at mushroom farms. Q5.5-5.5NPB-2.5HW's four chain quaternary based formula is designed for one-step cleaning and disinfecting of hard inanimate non-porous environmental surfaces. Q5.5-5.5NPB-2.5HW is strong enough to kill a broad spectrum of microbial mushroom pests, yet mild enough to have no harmful effects on the surfaces being treated when used as directed.

**Areas of Use**

Q5.5-5.5NPB-2.5HW has been designed for use between crops on surfaces that do not come in contact with the crop. Areas of intended use include tools, breezeways and track alleys before spawning, inside and outside walls of mushroom houses, lofts, floors, storage sheds, spawning machines, tampers and casing rings. Use of Q5.5-5.5NPB-2.5HW should be limited to areas where compost and mushrooms are not present.

**DIRECTIONS FOR USE**

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

**SITE PREPARATION:**

The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter.

**CLEANING AND DISINFECTION**

For all general cleaning and disinfection, use two ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution). Apply Q5.5-5.5NPB-2.5HW as a spray, wetting surfaces thoroughly. Treated surfaces should be allowed to remain wet for 10 minutes and let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. When greater detergent action is desired, dilute Q5.5-5.5NPB-2.5HW four ounces of concentrate to each gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Apply Q5.5-5.5NPB-2.5HW only on surfaces that DO NOT come in contact with the crop. USE AS A PREMISES SPRAY. DO NOT APPLY TO THE CROP, COMPOST, OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

ACCEPTED  
with COMMENTS  
APR 28 2003  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
211-50

8/9

(Administrative Note: The following text is required for labeling destined for poultry, cattle, or swine premise use)

**Formulated for Effective Poultry & Swine Premise Sanitation**

**DIRECTIONS FOR USE**

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

**SITE PREPARATION**

The first step in any ongoing sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum, depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, disinfection can be accomplished in a single step.

**CLEANING AND DISINFECTION**

For all general cleaning and disinfection, use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution). Apply Q5.5-5.5NPB-2.5HW using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Do not apply this product in a way that will contact workers or other persons, either directly or by drift. Only protected handlers may be in the area during application. Allow to remain wet for 10 minutes and then let air dry. Following application as a low or high pressure spray, do not enter or allow others to enter the treated area until sprays have dried. For heavily soiled areas, a precleaning step is required.

**EFFICACY PERFORMANCE**

The broad spectrum efficacy of Q5.5-5.5NPB-2.5HW has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:64 in hard water up to 400 ppm, in the presence of 5% blood serum (used to simulate organic soil load), at 20°C with an exposure time of 10 minutes.

**GERMICIDAL:** Q5.5-5.5NPB-2.5HW is effective against the broad spectrum of Gram positive and Gram negative pathogens as confirmed against *Salmonella choleraesuis*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* by the AOAC Use Dilution Confirmation test.

**FUNGICIDAL:** Q5.5-5.5NPB-2.5HW's fungicidal efficacy has been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi, *Trichophyton mentagrophytes*.

**VIRUCIDAL:** Virucidal testing using prescribed E.P.A. testing procedures has verified Q5.5-5.5NPB-2.5HW's effectiveness against the following viruses commonly associated with poultry and swine areas including: *Avian Influenza Virus*, *Avian Herpes Virus 2 (Marek's Disease)*, *Avian Bronchitis Virus*, *Hog Cholera Virus*, *Avian Laryngotracheitis*, *Pseudorabies Virus*

**AREAS OF USE**

**POULTRY PREMISE SANITATION (HATCHERIES)**

- |                     |                             |                   |                        |
|---------------------|-----------------------------|-------------------|------------------------|
| -Egg Receiving Area | -Tray Dumping Area          | -Egg Holding Area | -Chick Procession Area |
| -Setter Room        | -Chick Holding Room or Area | -Hatchery Room    | -Chick Loading Area    |
| -Poultry Buildings  | -Hauling Equipment          |                   |                        |

**APPLICATION AND USE DILUTIONS**

**POULTRY HOUSES:**

1. Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals or poultry, as well as cleaned forks, shovels, and scrapers used for removing litter and manure, in the recommended use solution. Ventilate buildings, cars, boats, coops, and other closed spaces in which the product has been used. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**HATCHERIES:**

1. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.

**EQUIPMENT:**

1. Empty all troughs, rack, feeding and watering bins, buckets and fountains.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water to treat all equipment.
3. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.

**VEHICLES:**

1. Clean all vehicles including mats, crates, cabs and wheels with high pressure water and Q5.5-5.5NPB-2.5HW disinfectant. Use 2 ounces per gallon of water to treat all vehicles.
2. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.

**SHOEBATHS SANITIZER:**

Shoebaths sanitizer containing one inch of freshly made disinfectant solution should be placed at all entrances to buildings and hatcheries. Change the disinfectant solution in the bath daily or when solution appears dirty

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 28 2003

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, this pesticide,  
registered under EPA Reg. No. 211-50



9/9

(Administrative Note: The following text is required for labeling destined for farm premise use)

**FOR CLEANING AND DISINFECTION OF:**

**EQUIPMENT** including feeders, waterers, fans, racks, troughs, bins and buckets. **VEHICLES** including live haul poultry delivery truck, feed trucks, service person cars, tractors, and all other vehicles.

**HATCHERIES** including floors, walls, equipment, incubators, hatchers, tray and buggies. **SHOEBATHS** including all entrances to buildings and hatcheries.

**AREAS OF USE**

**SWINE AND CATTLE SANITATION**

- Farrowing Barns and Areas
- Waterer & Feeder
- Blocks
- Nursery
- Creep Area
- Hauling Equipment

**MISCELLANEOUS**

- Horse Stables
- Sales Barn Stalls
- Dressing Plants
- Chutes/Loading Equipment
- Sick Pens
- Veterinary Hospitals
- Cat and Dog Kennels

**General Disinfection Uses:**

Can be used in the routine disinfection of hog houses, farrowing houses, finishing houses, growers, feeders and other equipment; horse stables and sick pens at race tracks or sale barns, hospital pens, calf pens and equipment. Disinfecting houses used for poultry, turkeys, ducks and game birds and for equipment used in brooding growing and laying quarters. Disinfecting dog and cat kennels as well as laboratory animal facilities, at veterinary hospitals, research laboratories and medical institutions. Spraying cattle pens, chutes loading equipment trucks and animal manure pits for the control of odor and ammonia.

**Dressing Plant Use:**

Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Equipment and utensils must be thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.

**APPLICATION AND USE DILUTIONS**

Do not apply this product in a way that will contact workers or other persons, either directly or by drift.. Only protected handlers may be in the area during application. Following application as a low or high pressure spray, do not enter or allow others to enter the treated area until sprays have dried.

**FARM PREMISE:**

**DO NOT USE IN MILKING STALLS, MILKING PARLORS OR MILK HOUSES.**

1. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls, and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean surfaces with soap or detergent and rinse with water.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution). Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.
3. Use 25-50 gallons of disinfectant solution per 1000 square feet of floor space. Totally immerse equipment to be treated in disinfectant solution. Ventilate buildings, cars, boats, and other closed spaces in which the product has been used. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, mangers, automatic feeder, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

**EQUIPMENT:**

1. Empty all troughs, racks, feeding and watering bins, buckets and fountains.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution) to saturate all equipment. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals or poultry, as well as cleaned forks, shovels, and scrapers used for removing litter and manure, in the recommended use solution.
3. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.

**VEHICLES:**

1. Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and PHENO-CEN solution.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution) to treat all vehicles. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.

**HATCHERIES:**

1. In the absence of eggs or chicks, clean all surfaces with soap and detergent, and rinse with potable water. Treat all surfaces thoroughly with Q5.5-5.5NPB-2.5HW solution by scrubbing with brush under high water pressure with emphasis on cracks and moulding where fungus and mold are usually located.
2. Use 2 ounces of Q5.5-5.5NPB-2.5HW per gallon of water (1:64 dilution) to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to the disinfectant solution for 10 minutes or more.
3. Do not introduce eggs or chicks until disinfectant solution has been absorbed, set, or dried.
4. Thoroughly scrub treated surfaces with soap or detergent, and rinse with potable water before reuse.

**SHOEBATHS SANITIZER:**

1. Shoebaths containing one inch of freshly made disinfectant solution should be placed at all entrances to buildings and hatcheries. Change the disinfectant solution in the bath daily or when solution appears dirty.

**ACCEPTED**  
**with COMMENTS**  
**in EPA Letter Dated**

**APR 28 2003**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No *211-50*