

21 DEC 1992

Richard Kueser
Central Solutions, Inc.
3130 Brinkerhoff Road
P.O. Box 15276
Kansas City, KS 66115

Subject: Pheno-Cen
EPA Registration No. 211-25
Your Amendment Dated September 15, 1992

Dear Mr. Kueser:

This is in response to your reply to our August 28, 1992 letter regarding your proposed additional efficacy claims and uses.

The labeling amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. A stamped copy of the labeling is enclosed for your records.

1. In the section "Sanitizing Livestock Buildings Using Fogging Devices" (page 13), add the statement, "Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room surfaces" (or, "...of room and machine surfaces").

2. Submit five copies of the finished labeling before you release the product for shipment bearing the amended labeling.

If you have any questions about this letter, you may call Wallace Powell at 703-305-6938.

Sincerely,

Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H-7504C)

CONCURRENCES

SYMBOL	Enclosure						
SURNAME							
DATE							

(CENTER PANEL)
(REQUIRED)

2719

PHENO-CEN
Germicidal/Detergent With Organic Soil Tolerance
Tuberculocidal-Germicidal
Pseudomonacidal-Fungicidal
Virucidal
Formulated for Effective
Health Care Facility Sanitation



Pheno-Cen is a highly concentrated germicidal detergent formulated for use where broad spectrum disinfection is required in the presence of moderate amounts of organic soil.*

Active Ingredients	
Potassium ortho-benzyl-para-chlorophenate	8.03%
Potassium ortho-phenylphenate	6.28%
Potassium para-tertiary-amyphenate	4.30%
Inert Ingredients	81.39%

CONTAINS SODIUM NITRITE

**KEEP OUT OF REACH OF CHILDREN
DANGER**



CENTRAL SOLUTIONS, INC.

3130 BRINKERHOFF RD.
P.O. BOX 15276
KANSAS CITY, KANSAS 64115

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

ACCEPTED
with COMMENTS
in EPA Letter Dated:

21 DEC 1992

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

211-25

3919

(LEFT PANEL)
(REQUIRED)

DIRECTIONS FOR USE

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

CLEANING AND DISINFECTION

For broad spectrum disinfection of gram negative and gram positive bacteria, including *Pseudomonas aeruginosa*, add 1/2 ounce PHENO-CFN to the gallon of water. Remove heavy soil or gross filth then apply solution with a mop, cloth, sponge or mechanical 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 2 ounces per gallon of water. Prepare a fresh solution for each use.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER

Keep Out of Reach of Children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Remove and wash contaminated clothing.

STATEMENT OF PRACTICAL TREATMENT

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 all contaminated clothing before reuse. If swallowed, drink large quantities of water. Call a physician.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

STORAGE AND DISPOSAL

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

STORAGE—Store in securely closed original container. Store in 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 pesticide is in 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 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.

EPA EST. NO. 211-KS4 EPA REG. NO. 211-25 NET CONTENTS ONE GALLON

ACCEPTED
with COMMENTS
in EPA Letter Dated:

21 DEC 1992

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

211-25

(HEALTH CARE FACILITY USE)

PHENO-CEN is a phosphate free, concentrated, hospital germicidal-detergent effective in 10 minutes at 20 C, in the presence of 5% blood serum, used to simulate organic soil. PHENO-CEN's multi phenolic formula is designed to clean, disinfect and deodorize any washable, inanimate, non-porous surface in one easy step. When used as directed, PHENO-CEN 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.

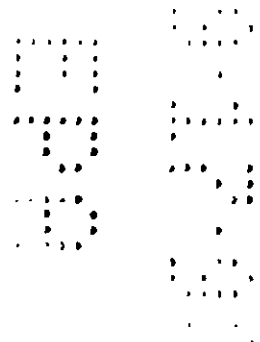
PHENO-CEN is recommended for use by hospitals, nursing homes and any health care institutions that are dedicated to controlling the hazards of cross contamination in their establishments. For use on any hard, inanimate surface in patient rooms, restrooms, halls and public areas on carts, bed frames, walls, floors, stainless steel, porcelain, glass and chrome.

PHENO-CEN is a highly concentrated germicidal detergent formulated for use where broad spectrum disinfection is required in the presence of moderate amounts of organic soil.

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211-25



(RIGHT PANEL)
(HEALTH CARE FACILITY USE)

DIRECTIONS FOR USE

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

CLEANING AND DISINFECTION

For broad spectrum disinfection of gram negative and gram positive bacteria, including Pseudomonas aeruginosa, and Mycobacterium tuberculosis add 1/2 ounce PHENO-CEN to the gallon of water. Remove heavy soil or gross filth then apply solution with a mop, cloth, sponge or mechanical 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 2 ounces per gallon of water. Prepare a fresh solution for each use.

EFFICACY PERFORMANCE

The broad spectrum efficacy of PHENO-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:256 in the presence of 5% blood serum (used to simulate organic soil load), at 20° degrees Celcius with an exposure time of 10 minutes.

GERMICIDAL:

PHENO-CEN 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 test, in the presence of 5% organic soil load at 20°degrees Celcius with an exposure time of 10 minutes.

FUNGICIDAL:

At 1/2 ounce per gallon of water, PHENO-CEN is also effective against Trichophyton mentagrophytes, (the athlete's foot fungus) in use areas such as shower room floors, locker room benches, bathmats or any other hard nonporous, inanimate environmental surfaces.

TUBERCULOCIDAL

PHENO-CEN disinfectant's effectiveness against Mycobacterium bovis (BCG) is demonstrated through testing using the AOAC Method "Confirmative in Vitro Test for Determining Tuberculocidal Activity" in 10 minutes at 20° C.

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211-25

(MUSHROOM FARM PREMISE USE)

GERMICIDAL-DETERGENT WITH ORGANIC SOIL TOLERANCE
FORMULATED FOR MUSHROOM FARM SANITATION

PHENO-CEN 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

GERMICIDAL:

PHENO-CEN 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

FUNGICIDAL:

Fungi specific to the mushroom industry which PHENO-CEN has been tested against and found effective include:

- Verticillium fungicola..(Verticillium disease, Brown spot or Fungus spot)
- Mycogone perniciososa.....(Mycogone disease or Wet bubble)
- Tricoderma viride.....(Tricoderma spot, Tricoderma blotch Tricoderma mildew, Green mold)
- Dactylium dendroides....(Hypomyces mildew, Cobweb, Soft decay)

MUSHROOM FARM INDUSTRY USE

General Information

PHENO-CEN is a phosphate free, germicidal detergent effective in the presence of moderate amounts of organic soil on a variety of surfaces found at mushroom farms. PHENO-CEN's tri-phenolic formula is designed for one-step cleaning and disinfecting of hard inanimate non-porous environmental surfaces. PHENO-CEN 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

PHENO-CEN 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 PHENO-CEN should be limited to areas where compost and mushrooms are not present.

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211-25

(MUSHROOM FARM PREMISE USE)

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 1/2 ounce of PHENO-CEN per gallon of water (1:256 dilution). Apply PHENO-CEN 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 precleaning step is required. Prepare a fresh solution for each use. When greater detergent action is desired, dilute PHENO-CEN two ounces of concentrate to each gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Apply PHENO-CEN 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.

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211-25

8919

(POULTRY AND 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 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. Once the heavy debris is eliminated, disinfection can be accomplished in a single step.

CLEANING AND DISINFECTION

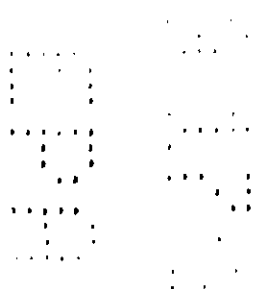
For all general cleaning and disinfection, use 1/2 ounce of PHENO-CEN per gallon of water (1:256 solution). Apply PHENO-CEN using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a precleaning step is required. Prepare a fresh solution for each use.

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Under the Federal Insecticide,
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registered under EPA Reg. No.

211-25



(POULTRY AND SWINE PREMISE USE)

EFFICACY PERFORMANCE

The broad spectrum efficacy of PHENO-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:256 in the presence of 5% blood serum (used to simulate organic soil load), at 20 degrees Celcius with an exposure time of 10 minutes.

GERMICIDAL

PHENO-CEN is effective against the broad spectrum of Gram positive and Gram negative pathogens including:

- | | |
|--------------------------|-----------------------|
| Staphylococcus aureus | Escherichia coli |
| Pseudomonas aeruginosa | Salmonella puilorum |
| Salmonella choleraesuis | Salmonella gallinarum |
| Mycoplasma synoviae | Bordetella avium |
| Mycoplasma gallisepticum | |
| Pseudomonas fragi | Pasteurella multocida |

FUNGICIDAL

PHENO-CEN's fungicidal efficacy has been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi, Trichophyton mentagrophytes and Aspergillus fumigatus

*VIRUCIDAL

Virucidal testing using prescribed E.P.A. testing procedures has verified PHENO-CEN's effectiveness against the following viruses commonly associated with poultry and swine areas including:

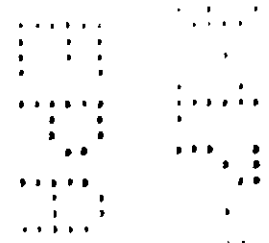
- | | |
|-------------------------------|---------------------------------------|
| Avian Influenza Virus | Avian Herpes Virus 2 (Mareks Disease) |
| Avian Bronchitis Virus | Hog Cholera Virus |
| Avian Laryngotracheitis Virus | Pseudorabies Virus |
| Avian Adenovirus | African Swine Fever Virus |
| Avian Reovirus | |

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211-25



(POULTRY AND SWINE PREMISE USE)

AREAS OF USE
POULTRY PREMISE SANITATION (HATCHERIES)

- Egg Receiving Area
- Egg Holding Area
- Setter Room
- Hatchery Room
- Poultry Buildings
- Tray Dumping Area
- Chick Processing Area
- Chick Holding Room or Area
- Chick Loading Area
- 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 1/2 ounce of PHENO-CEN per gallon of water. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house 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 1/2 ounce of PHENO-CEN per gallon of water to treat hatcher, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

EQUIPMENT:

1. Empty all troughs, racks, feeding and watering bins, buckets and fountains.
2. Use 1/2 ounce of PHENO-CEN per gallon of water to treat all equipment. Leave all treated surfaces exposed to 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 disinfectant. Use 1/2 ounce per gallon of water to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

SHOEBATHS:

1. Shoebath 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 ~~whenever~~ when solution appears dirty.

with COMMENTS
in EPA Letter Dated:

21 DEC 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 211-25

11 8 19

(POULTRY AND SWINE PREMISE USE)

POULTRY AND ANIMAL INDUSTRY USE

FOR CLEANING AND DISINFECTION OF:

EQUIPMENT including feeders, waterers, fans, racks, troughs, bins and buckets.

VEHICLES including live haul poultry delivery trucks, 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:

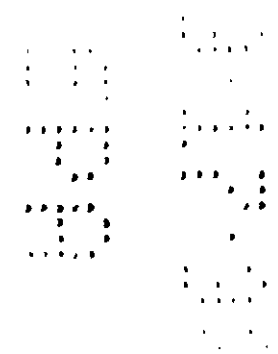
Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Equipment and utensils must be thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.

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(POULTRY, SWINE AND FARM USE)

APPLICATION AND USE DILUTIONS

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. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water.

2. Use 1/2 ounce of PHENO-CEN per gallon of water (1/2part PHENO-CEN to 256 parts of water). Saturate all surfaces with the recommended solution for a period of 10 minutes.

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 building and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, 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 1/2 ounce of PHENO-CEN per gallon of water (1/2part PHENO-CEN to 256 parts of water) to saturate all equipment. Leave all treated surfaces exposed to 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 1/2 ounce of PHENO-CEN per gallon of water (1/2part PHENO-CEN to 256 parts of water) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

HATCHERIES:

1. Treat all surfaces thoroughly with PHENO-CEN solution by scrubbing with brush under high water pressure with emphasis on cracks and moulding where fungus and mold are usually located. 2. Use 1/2 ounce of PHENO-CEN per gallon of water (1/2part PHENO-CEN to 256 parts of water) to treat hatcher, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

SHOEBATHS SANITIZER: 1. Shoebath 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.

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211-25

(OPTIONAL SWINE AND POULTRY PREMISE USE)

DIRECTIONS FOR USE

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

SWINE AND POULTRY BUILDINGS,
HATCHERIES, DRESSING PLANTS

The first step in any sanitation program should be to remove gross contamination and debris. The efficacy of even the most efficient germicide/ cleaner is reduced in the presence of heavy organic matter. Remove all animals, poultry, and feeds from buildings, vehicles and enclosures. Empty all troughs, racks and other feeding and watering equipment. Mix PHENO-CEN at the rate of 1/2 ounce per gallon of water (1:256) and saturate all surfaces for 10 minutes. Use 25-50 gallons of disinfectant solution per 1000 square feet of floor space. Ventilate buildings and other closed spaces. Do not house livestock or poultry or use equipment until treatment has been absorbed set or dried. Rinse equipment with potable water before reuse. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with water before reuse.

In poultry and animal dressing plants, disinfect equipment, utensils, interior and exterior walls, floors, offal and loading platforms with PHENO-CEN at the 1:256 dilution rate. Again, equipment and utensils must be thoroughly rinsed with potable water before reuse.

Equipment

Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Mix 1/2 ounce of PHENO-CEN Disinfectant per gallon of water (1:256) and treat all equipment for 10 minutes or more. Thoroughly scrub treated feeding and watering appliances with soap or detergent and rinse with potable water before reuse. Clean all vehicles including mats, crates, cabs and wheels with high pressure water and PHENO-CEN (1:256 dilution). Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

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SANITIZING LIVESTOCK BUILDINGS USING FOGGING DEVICES

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

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. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Inspect to be sure that all people, poultry, livestock and pets have left the building. Close all openings; windows, doors, louvres, curtains, etc. Be sure all exhaust fans are turned off. Mix one part Pheno-Cen with two parts water in the reservoir of the fogger. With the setting on maximum output, fog the treatment into the area to be sanitized. Use a total of 1 gallon of Pheno-Cen for each 6000-8000 square feet of floor area. In multi-story buildings, the application must be repeated for each floor that is to be sanitized. When fogging is completed, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

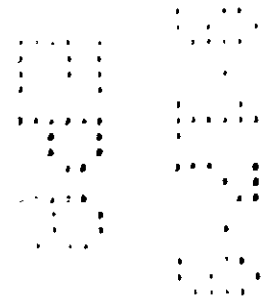
Add statement in EPA letter.

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SANITIZING HATCHERY ROOMS USING FOGGING DEVICES

Remove all animals and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix one part Pheno-Cen to five parts water. (1/2 gallon Pheno-Cen to 2.5 gallons of water.) Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, for one minute for each 4000 cubic feet of space in the room. When fogging is completed, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 6 ounces Pheno-Cen 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 at least 24 hours prior to pulling the hatch. Do not allow people to contact or breathe this fog and do not enter until the fog has settled (30-60 minutes after fogging is completed). It is acceptable to fog setters and hatchers with a 1/2 ounce per gallon solution of Pheno-Cen on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is completed, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

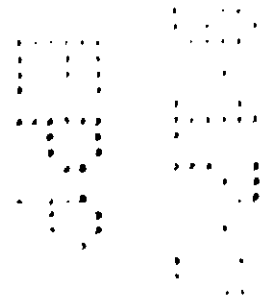
Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room and machine surfaces.

ACCEPTED
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211-25



(AQUACULTURE USE)
 Germicidal-Detergent Formulated
 For Disinfecting Tools, Equipment,
 and Surfaces in Greenhouses, Micropropagation
 Laboratories, Aquaculture and Hydroponic Farms
 Facilities, or Plants

WARNING!!!

MUST NOT COME IN CONTACT WITH EDIBLE CROPS

GENERAL INFORMATION:

PHENO-CEN disinfectant is a phosphate free, germicidal detergent effective in the presence of moderate amounts of organic soil on a variety of surfaces found in greenhouses, micropropagation laboratories, aquaculture and hydroponic farms. PHENO-CEN's multisynthetic phenolic formula is designed for one-step cleaning and disinfecting hard inanimate nonporous surfaces. PHENO-CEN is strong enough to kill a broad spectrum of plant pathogens and pests, yet mild enough to have no harmful effects on the surfaces being treated when used as directed.

AREAS OF USE:

PHENO-CEN is designed to be used between crops, or between daily work procedures on surfaces, tools and equipment that do not come in contact with edible crops. Areas of intended use include tools, floors, walls, bench tops, potting areas, headhouses, dry storage areas, sheds, barns, automated potting equipment, cultivating and planting equipment, pruning and budding equipment, pallets and pallet moving equipment.

DO NOT APPLY TO CROP, SOIL OR GROWING MEDIA IN WHICH A CROP GROWS OR WILL BE GROWN! To assure compliance, rinse treated surfaces and tools with potable water before they contact the crop or the substrate in which the crop is or will be growing.

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. Once the heavy debris is eliminated, disinfection can be accomplished in a single step.

CLEANING AND DISINFECTION

For all general cleaning and disinfection, use 1/2 ounce of PHENO-CEN per gallon of water (1:256 solution). Apply PHENO-CEN using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a precleaning step is required. Prepare a fresh solution for each use.

ACCEPTED
 with COMMENTS
 in EPA Letter Dated:

21 DEC 1992

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act as
 amended, for the pesticide
 registered under EPA Reg. No.
 211-25

(AQUACULTURE USE)

EFFICACY PERFORMANCE

The broad spectrum efficacy of PHENO-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:256 in the presence of 5% blood serum (used to simulate organic soil load), at 20 degrees Celcius with an exposure time of 10 minutes.

GERMICIDAL

PHENO-CEN has been tested and is effective against bacteria recognized as detrimental to a variety of crops grown in controlled environments. Bacterial plant pathogens found susceptible to the killing power of PHENO-CEN include:

- Pseudomonas solanacearum...Southern Bacterial Wilt
- Pseudomonas cichorii.....Bacterial Leaf Spot and Blight
- Erwinia caratovora.....Soft Rot
- Erwinia chrysanthemi..Soft Rot, Leaf Spot, Bacterial Blight
- Agrobacterium tumifaciens..Crown Gall
- Xanthomonas pelargoni.....Bacterial Blight
- Xanthomonas campestris.....Stem Rot, Leaf Spot. Bacterial Blight

FUNGICIDAL

Common fungal pathogens of plants found to be effectively controlled by PHENO-CEN include:

- Botrytis cinerea.....Grey Mold, Stem Rot, Bulb Rot, Flower or Blossom Blight, Storage Rot, Leaf Blight
- Fusarium oxysporum.....Fusarium Wilt
- Phytophthora cinnamomi.....Phytophthora root rot
- Phthium ultimum.....Damping off, Soft Rot, Root Rot
- Rhizoctonia solani.....Damping off, Stem Rot, Wire Stem Root Rot
- Verticillium albo-atrum....Verticillium Wilt

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(DENTAL INSTRUMENT USE)

PHENO-CEN
DISINFECTANT CLEANER-SUPER CONCENTRATE FOR ULTRASONIC USE
INSTRUMENT PRE-SOAK
DISINFECTANT ULTRASONIC CLEANER CONCENTRATE

A highly effective multi phenolic germicide for cleaning instruments at chairside and immersion disinfection.

MAKES (X) GALLONS

-The contents of this bottle dilute to make (X) gallons/
(X) liters disinfectant cleaning solution.

Hospital Concentrate

- FOR PROFESSIONAL USE ONLY - NOT RECOMMENDED FOR PLASTIC AND RUBBER.

- > Ideal as a chairside pre-soak for instruments
- > Ideal as a holding solution prior to ultrasonic cleaning
- > Prevents drying of blood, serum and debris
- > Promotes safer instrument handling
- > Won't discolor instruments or surfaces
- > Effective as a hard surface disinfectant
- > Pleasantly scented
- > Super concentrated-makes (X) gallons of solution
(X will depend on the size of container)

DIRECTIONS FOR USE

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

USE: PHENO-CEN instrument pre-soak is a highly effective germicide detergent for immersion disinfection of inanimate, non-porous surfaces of instruments and appliances. Use at a use dilution of 1:256 (1/8 ounce of PHENO-CEN per quart of water or 4 ml per liter).

DILUTION: Remove outer cap. While holding bottle by its neck, twist off the inner cap and discard. Replace outer cap loosely. Gently squeeze the lower chamber until the upper reservoir is filled to the desired level (1/8 oz per quart of water, or 4 ml per liter of water). Pour the concentrate into the tray or ultrasonic tank and add water to the recommended level.

CHAIRSIDE PRE-SOAK: Place soiled instrument in holding tray solution until ready to be cleaned. If instrument is required again for the same patient, remove from holding solution and rinse thoroughly under gently running tepid water. Dispose of used solution after each patient. Rinse items prior to ultrasonic cleaning.

ACCEPTED
with COMMENTS
in PPA Letter Detail

21 DEC 1992

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registered under FPA Reg. No.

211-25

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DISINFECTION: Thoroughly clean and rinse instruments to remove excess debris, preferably in an ultrasonic cleaner before immersing in freshly prepared disinfectant solution. Cleanse and rinse the lumens of any hollow instruments before filling with solution. Avoid entrapment of air bubbles. All instruments and devices must be rinsed and rough dried before immersion in the disinfectant solution. Immerse instruments completely for 10 minutes at room temperature (20 C/68 F) to destroy the broad spectrum of Gram + and Gram - bacteria, pathogenic fungi and Mycobacterium tuberculosis. After immersion, remove instruments and rinse them thoroughly. Prepare a fresh holding solution daily, or sooner, if solution is visibly dirty.

For cleaning or disinfection of inanimate, non-porous surfaces of dental and laboratory instruments and appliances in ultrasound equipment use PHENO-CEN at a dilution of 1:256 (1/2 oz PHENO-CEN per gallon of water), (1/8 ounce per quart of water). Fill tank or beaker with water to recommended level. Fill upper reservoir of dispenser bottle to correct level to attain use dilution, and add to tank or beaker. Add precleaned instruments to solution so surfaces remain wet for 10 minutes. Always cover tank or beaker when unit is operating. Always turn off machine when removing items. Operate the ultrasonic cleaner no more than 15 minutes to minimize vaporization. Do not allow solution to overheat. Prepare a fresh solution daily, or sooner, when solution is visibly dirty. Do not mix with other chemicals. Clean and rinse tank daily.

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