

PM 32

211-25

10/10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 28 1989

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

Attention: Richard Kueser  
Director of Plant Operations

Gentlemen:

Subject: Pheno-Cen  
EPA Registration No. 211-25  
Your Submission Dated January 13, 1989

This is in response to your resubmission regarding the Tuberculocidal Data Call-In Notice for the subject product.

The labeling referred to above is acceptable provided that you:

1. Make the following labeling revisions before you release the product for shipment bearing the amended labeling.
  - a. Include the statement "Contains sodium nitrite" below the ingredient statement.
  - b. Delete all references to "footbaths."
  - c. Revise the ingestion statement on the right panel to read:  
  
If swallowed, drink large quantities of water. Call a physician.
  - d. All references to the product name must be the same (i.e., Pheno-Cen). Delete "mushroom farm disinfectant" after "Pheno-Cen" wherever it appears.

57258;I;Douglas;K-9;KERO, 9/25/89;11/5/89;C;T;sw;v;orek;rdg

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

- e. Under "Efficacy Performance," delete the wording "as is required by the EPA."
- f. Under "Application and Use Directions," include the following statement immediately after "Farm Premise":

Do not use in milking stalls, milking parlors, or milk houses.

- g. In the last sentence of the General Information paragraph for "Mushroom Farm Industry Use," include "microbial" between "of" and "mushroom."
- h. On the right panel, revise "Hazardous to Humans and Domestic Animals" to read "Hazards to Humans and Domestic Animals."
- i. Revise the statement in the second paragraph under "Disinfection" to read:

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

- 2. Submit the final printed labeling for inclusion of the product file.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,



Jeff Kempton  
Product Manager (32)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosure

FRONT PANEL



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.\*

<b>Active Ingredients</b>	
Potassium ortho-benzyl-para-chlorophenate .....	8.03%
Potassium ortho-phenylphenate .....	6.28%
Potassium para-tertiary-amyphenate .....	4.30%
<b>Inert Ingredients</b> .....	<b>81.39%</b>

*Contains Sodium Nitrite*  
**Keep Out of Reach of Children**

**DANGER**

See statement of practical treatment and other precautions on right panel.

ACCEPTED  
with COMMENTS  
in EPA LCUR Data:

SEP 28 1989



**CENTRAL SOLUTIONS, INC.**

3130 BRINKERHOFF RD.  
P.O. BOX 15276  
KANSAS CITY, KANSAS 66115

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

*211-25*

NET CONTENTS      GALLON

BEST AVAILABLE COPY

RIGHT PANEL

**PRECAUTIONARY STATEMENTS**  
Hazardous 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 milk, egg white, Gelatin, etc. if these are not available, 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-KS1

EPA REG. NO. 211-25

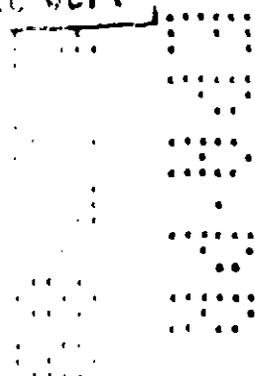
ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 28 1988

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, this pesticide is  
registered under the Act.

211-25

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~~Pheno-Cen MUSHROOM FARM DISINFECTANT~~

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

Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ effectively  
Kills fungi, bacteria and nematodes 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

All tests have been performed in the presence of 5% blood serum (to simulate organic load) at a 1:256 dilution (ONE-HALF ounce per gallon water).

GERMICIDAL

Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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, Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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 the presence of 5% organic soil load.

FUNGICIDAL

Fungi specific to the mushroom industry which Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ has been tested against and found effective include:

*Verticillium fungicola*..(Verticillium disease, Brown spot  
or Fungus spot)

*Mycogone perniciosus*.....(Mycogone disease or Wet bubble)

*Tricoderma viride*.....(Tricoderma spot, Tricoderma blotch  
Tricoderma mildew, Green mold)

*Dactylium dendroides*....(Hymenoglyphus mildew, Cobweb,

Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~'s fungicidal efficacy has also been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi *Trichosporon mentaurophytes*.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

**BEST AVAILABLE COPY**

SEP 28 1989

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, registration of this  
product is hereby cancelled.

3/1/25



**MUSHROOM FARM INDUSTRY USE**

**General Information**

Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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 ~~MUSHROOM FARM DISINFECTANT~~'s tri-phenolic formula is designed for one-step cleaning and disinfecting of hard inanimate non-porous environmental surfaces. Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ is strong enough to kill a broad spectrum of mushroom pests, yet mild enough to have no harmful effects on the surfaces being treated when used as directed.

*microbial*

**Areas of Use**

Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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 rins.

**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 disinfested. The efficacy of even the most efficient germicidal cleaners is reduced in the presence of heavy organic matter.

**CLEANING AND DISINFECTION**

For all general cleaning and disinfection, use ONE-HALF ounce of Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ per gallon of water (1:256 dilution). Apply Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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 and is needed. Prepare a fresh solution for each use. When greater detergent action is desired, dilute Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ two ounces of concentrate to each gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Apply Pheno-Cen ~~MUSHROOM FARM DISINFECTANT~~ 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  
in EPA Letter Dated:

SEP 28 1989

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended. To the public file  
register of the EPA.

*2/1-25*

**BEST AVAILABLE COPY**

**Pheno-Cen**  
**Germicidal/Detergent With Organic Soil Tolerance**  
**Virucidal-Germicidal**  
**Pseudomonacidal-Fungicidal**  
**Formulated for Effective**  
**Poultry and Swine Premise 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.

Pheno-Cen is a phosphate free, concentrated, hospital grade germicidal-detergent effective in the presence of moderate amounts of organic soil. Pheno-Cen's four-chain quaternary based 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 is harmless to the surface being disinfected.

**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 cleaners 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 ONE-HALF ounce of Pheno-Cen per gallon of water (1:256 solution). Apply Pheno-Cen solution 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, the pre-cleaning step is required. 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, as is required by the EPA, at a use-dilution of 1:256 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**

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 Confirmation test in the presence of 5% organic soil load.

**FUNGICIDAL**

Pheno-Cen's fungicidal efficacy has been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi, *Trichophyton mentaurophytes*.

**VIRUCIDAL**

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

Avian Influenza Virus  
Avian Bronchitis Virus  
Hou Cholera Virus

Avian Herpes Virus 2 (Mareks Disease)  
Avian Larynotracheitis Virus  
Pseudorabies Virus

ACCEPTED  
with COMMENTS  
on EPA Letter Dated:

SEP 28 1989

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product is registered under EPA...

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21125

POULTRY PREMISE SANITATION (HATCHERIES)

- Egg Receiving Area
- Egg Holding Area
- Setter Room
- Hatcher Room
- Tray Dumping Area
- Chick Processing Area
- Chick Holding Room
- 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.
2. Use ONE-HALF 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 ONE-HALF ounce of Pheno-Cen 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 disinfectant solution for 10 minutes or more.

**EQUIPMENT:**

1. Empty all troughs, racks, feeding and watering bins, buckets and fountains.
2. Use ONE-HALF 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 ONE-HALF 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 daily or when solution appears dirty.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 28 1989

Under the provisions of the  
Federal Insecticide, Fungicide,  
and Rodenticide Act, this label  
remains in effect until the  
required label is filed.

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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.

ARE	USE
<u>SWINE UTILIZATION</u>	
-Farrowing Area	-Waterer & Feeder
-Blocks	-Nursery
-Creep Area	-Hauling Equipment

~~Footbaths~~  
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 all general cleaning and disinfection, use ONE-HALF oz. of Pheno-Cen per gallon of water (1:256 solution). Apply 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, the precleaning step is required. Prepare a fresh solution for each use.

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 equipment and foot baths. 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:

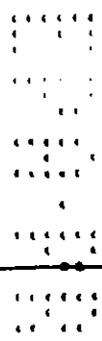
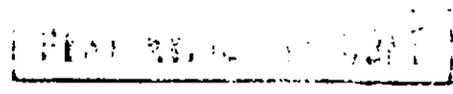
Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Equipment and utensils must be thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 28 1989

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

211-25



APPLICATION AND USE DILUTIONS

FARM PREMISES: *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.
2. Use ONE-HALF ounce of Pheno-Cen per gallon of water (1 part 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. Rinse thoroughly with potable water before reuse.

EQUIPMENT:

1. Empty all troughs, racks, feeding and watering bins, buckets and fountains.
2. Use ONE-HALF ounce of Pheno-Cen per gallon of water (1 part 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 ONE-HALF ounce of Pheno-Cen per gallon of water (1 part 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 ONE-HALF ounce of Pheno-Cen per gallon of water (1 part Pheno-Cen to 256 parts of water) to treat hatchers, 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, ~~DISINFECTANT~~ 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.

**BEST AVAILABLE COPY**

DIRECTIONS FOR USE

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

Pheno-Cen is a phosphate free, concentrated, hospital grade 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-synthetic 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 be harmless to the surface being disinfected. 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.

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 1 to 2 ounces per gallon of water. Prepare a fresh solution for each use.

At 1/2 ounce to the gallon of water Pheno-Cen is also effective against Trichophyton mycetozoa (the athlete's foot fungus) when used on hard surfaces in areas such as locker rooms, shower and bath areas, exercise areas, dressing rooms, etc.

*room floors, bathmats or hair, newspapers inanimate environmental surfaces*

ACCEPTED with COMMENTS in EPA Letter Dated:

SEP 28 1989

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