

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: Tri-Cen
EPA Registration No. 211-36
Your Submission Dated January 27, 1989

This is in response to your resubmission regarding the Tuberculocidal Data Call-In Notice, the mushroom farm premise use and addition of two virucidal claims 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. On the left panel, revise the ingestion statement to read "If swallowed, drink large quantities of water. Call a physician."
 - b. Delete all references to "foot-baths."
 - c. All references to the product name throughout the labeling must be the same (i.e., Tri-Cen). Delete "mushroom farm disinfectant" after "Tri-Cen" wherever it appears.

57274:I:Douglas:LK-2:KENCO:9/25/89:11/05/89:dg:vo:sw:ek:de
R:57260:Douglas:LK-2:KENCO:G3/27/89:11/10/89:DD

CONCURRENCES							
SYMBOL							
RNAME							

- d. Under "Efficacy Performance," first sentence, delete "as is required by the EPA."
- e. Delete the first paragraph under "Disinfection" in the directions.
- f. Revise "Hazardous to Humans and Domestic Animals" to read "Hazards to Humans and Domestic Animals" on the left panel.
- g. Under "Application and Use Dilutions" include the following statement immediately after "Farm Premise": "Do not use in milking stalls, milking parlors, or milk houses."
- h. Delete "nematodes" in the statement "kills fungi, bacteria and nematodes which prove dangerous to mushroom crops."
- i. In the last sentence of the General Information paragraph for "Mushroom Farm Industry Use" include "microbial" between "of" and "mushroom."
- j. Include the following wording on the labeling after the paragraph on Disinfection:

At one ounce per gallon of water, Tri-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 hard non-porous, inanimate environmental surfaces.

2. Submit the final printed labeling for inclusion in 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 Kempter
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

TRI-CEN
GERMICIDAL DETERGENT
WITH ORGANIC SOIL TOLERANCE

**TUBERCULOCIDAL—PSEUDOMONACIDAL
GERMICIDAL—FUNGICIDAL**

**A highly effective combination odor counteractant,
soapless cleaner and activated phenolic germicide.**

Active Ingredients	
Sodium ortho-benzyl-para-chlorophenate	4.40%
Sodium ortho-phenylphenate	2.82%
Sodium para-tertiary-amyphenate	2.49%
Inert Ingredients	90.29%

KEEP OUT OF REACH OF CHILDREN

DANGER

CENTRAL SOLUTIONS, INC.



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

ACCEPTED
WFO, COCA, SCS
MAY 1989

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211-36

LEFT 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 whites, gelatin solution~~ or 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 Reg. No. 211-25

EPA Est. No. 211-KS-1

NET CONTENTS ONE GALLON

ACCEPTED
WBS
IN 1989

SEP 28 1989

211 36

11/1/92 JAMES

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

TRI-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 1:128 dilution (1 ounce per gallon water).

GERMICIDAL

TRI-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, TRI-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 at 20 degrees Celcius with an exposure time of 10 minutes.

FUNGICIDAL

Fungi specific to the mushroom industry which TRI-CEN ~~Mushroom Farm~~ DISINFECTANT has been tested against and found effective include:

- Verticillium fungicola..(Verticillium disease, Brown spot or Furqus 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)

TRI-CEN ~~Mushroom Farm~~ DISINFECTANT's fungicidal efficacy has also been confirmed through testing using the AOAC Fungicidal Test against the pathogenic fungi Trichophyton mentagrophytes.

ACCEPTED
VERIFIED
DATE

SEP 28 1989

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MUSHROOM FARM INDUSTRY USE

General Information

TRI-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. TRI-CEN ~~Mushroom Farm~~ Disinfectant's tri-phenolic formula is designed for one-step cleaning and disinfecting of hard inanimate non-porous environmental surfaces. TRI-CEN ~~Mushroom Farm~~ Disinfectant is strong enough to kill a broad spectrum of ^{microba} mushroom pests, yet mild enough to have no harmful effects on the surfaces being treated when used as directed.

Areas of Use

TRI-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 rings.

DIRECTIONS FOR USE

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

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 cleaner is reduced in the presence of heavy organic matter.

CLEANING AND DISINFECTION

For all general cleaning and disinfection, use 1 ounce of TRI-CEN ~~Mushroom Farm~~ Disinfectant per gallon of water (1:128 dilution). Apply TRI-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 recommended. Prepare a fresh solution for each use. When greater detergent action is desired, dilute TRI-CEN ~~Mushroom Farm~~ Disinfectant two ounces of concentrate to each gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Apply TRI-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.

APPROVED
V. J. ...
IN ...

SEP 28 1989

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APPLICATION AND USE DILUTIONS

1876/119M *final*

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.
2. Use 1 ounce of Tri-Cen per gallon of water (1 part Tri-Cen to 128 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 1 ounce of Tri-Cen per gallon of water (1 part Tri-Cen to 128 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 Tri-Cen solution.
2. Use 1 ounce of Tri-Cen per gallon of water (1 part Tri-Cen to 128 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 Tri-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 ounce of Tri-Cen per gallon of water (1 part Tri-Cen to 128 parts of water) to treat hatching, 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, ~~FOOTBATH~~ 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.

APPROVED
DATE

SEP 28 1980

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POULTRY AND ANIMAL INDUSTRY USE

10 11/1984 p. 101
212

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, hatching trays and buggies.

SHOEBATHS including all entrances to buildings and hatcheries.

AREAS OF USE
SWINE SANITATION

- Farrowing Area
- Blocks
- Creep Area
- ~~Footbaths~~
- Waterer & Feeder
- Nursery
- Hauling Equipment

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 1 ounce of Tri-Cer per gallon of water (1:128 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 ~~footbaths~~. 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 11/1984

SEP 28 1989

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AREAS OF USE

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 1 ounce of Tri-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 ounce of Tri-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 1 ounce of Tri-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 Tri-Cen disinfectant Use 1 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 PEA L and D 104

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EFFICACY PERFORMANCE

The broad spectrum efficacy of Tri-Cen has been confirmed using A.O.A.C. protocol testing, ~~as is required by the EPA,~~ at a use-dilution of 1:128 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

Tri-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.

FUNGICIDAL

Tri-Cen'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 Tri-Cen'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 | Avian Laryngotracheitis Virus |
| Hog Cholera Virus | Pseudorabies Virus |

ACCEPTED
with COMMENTS
in EPA E.O. 12833

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12

Tri-Cen
Germicidal/Detergent With Organic Soil Tolerance
Tuberculocidal-Germicidal
Pseudomonacidal-Fungicidal
Virucidal*
Formulated for Effective
Poultry Premise Sanitation

Tri-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.

Tri-Cen is a phosphate free, concentrated, hospital grade germicidal-detergent effective in the presence of moderate amounts of organic soil. Tri-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, Tri-Cen's strong enough to kill a broad spectrum of pathogenic bacteria, yet is mild enough to have no harmful effects on the surface being disinfected, when used as directed.

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 ounce of Tri-Cen per gallon of water (1:128 solution). Apply Tri-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
SEP 28 1989

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21136

1811/19111 *James*

DIRECTIONS FOR USE

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

Tri-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. Tri-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, Tri-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.

Tri-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, add 1 ounce Tri-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. Where Tuberculocidal activity is required, clean the surface prior to application of the disinfectant solution. If higher detergency is desired, increase dilution to 2 ounces per gallon of water. Prepare a fresh solution for each use.~~

For broad spectrum disinfection of gram negative and gram positive bacteria, including Pseudomonas aeruginosa, add 1 ounce Tri-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. Where Tuberculocidal activity is required, allow the disinfectant solution to remain on the surface for 15 minutes. If higher detergency is desired, increase dilution to 2 ounces per gallon of water. Prepare a fresh solution for each use.

At one ounce per gallon of water, Tri-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 hard non-porous, inanimate environmental surfaces.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

SEP 28 1989

R/S