

PM 32

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1418

DEC 20 1990

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 October 19, 1990

This is in response to your resubmission dated October 19, 1990 regarding your request to amend the registration of the subject product to include an additional virucidal claim, greenhouse and aquaculture farm uses and revisions to the tuberculocidal claim of effectiveness. The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, are acceptable provided that you:

1. Make the following labeling revisions before you release the product for shipment bearing the amended labeling:
 - a. Revise the ingestion statement, as previously requested, to read "If swallowed, drink large quantities of water".
 - b. Correct the spelling of "facility" near the top of the center panel.
 - c. The following subheadings must be included in the second paragraph, page 5:

PERSONAL PROTECTION before the statements beginning with "Disposable gloves xxx"; CLEANING PROCEDURE

CONCURRENCES

SYMBOL	SURNAME	DATE						

2.001

(2)

before the statement "Blood and other body xxx; DISPOSAL OF INFECTIOUS MATERIALS before the statement "Contaminated waste and blood xxx"; CONTACT TIME and the statements "Leave surfaces wet for 10 minutes. Let air dry" must be included after the above statement.

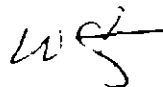
- 2. Submit five (5) copies of the revised final printed labeling for inclusion in the product file before you release the product for shipment bearing the amended labeling.

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

A stamped copy of the edited labeling is enclosed for your records.

If you have any questions in this regard, please contact Ms. Ruth Douglas at (703) 557-3842.

Sincerely yours,



Walter C. Francis
Acting Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

(CENTER PANEL)
(REQUIRED)

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

Facility

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 20 1990

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

211-36

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

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

ACCEPTED
with COMMENTS
in EPA Letter Dated:

(LEFT PANEL)
(REQUIRED)

DEC 20 1990

DIRECTIONS FOR USE

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

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 211-36

CLEANING AND 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.

(OR)

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.

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 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.

TRI-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. TRI-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, 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.

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.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 20 1990

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

211-36

(RIGHT/BACK PANEL)

DEC 20 1990

DIRECTIONS FOR USE

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

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 211-36

CLEANING AND 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.

(OR)

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 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.

EFFICACY PERFORMANCE

The broad spectrum efficacy of TRI-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:128 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:

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

FUNGICIDAL:

At 1 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 any other hard nonporous, inanimate environmental surfaces.

TUBERCULOCIDAL

TRI-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 15 minutes at 20 C. Where Tuberculocidal activity is required, allow the disinfectant solution to remain on the surface for 15 minutes.

VIRUCIDAL

***KILLS HIV-1 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-1 (AIDS VIRUS) OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

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. 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. Contaminated waste and blood and other body fluids should be autoclaved and disposed according to local regulations for infectious waste disposal.

Let air dry

SECONDAL PRETEST

OFF ANIMAL PRODUCT

DEPARTMENT OF ENVIRONMENTAL AFFAIRS

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

DEC 20 1990

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

211-36

ACCEPTED
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211-36

(MUSHROOM FARM PREMISE USE)

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

TRI-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:

TRI-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 TRI-CEN has been tested against and found effective include:

- Verticillium fungicola..(Verticillum 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

TRI-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. TRI-CEN's tri-phenolic formula is designed for one-step cleaning and disinfecting of hard inanimate non-porous environmental surfaces. TRI-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

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

(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 ounce of TRI-CEN per gallon of water (1:128 dilution). Apply TRI-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 TRI-CEN two ounces of concentrate to each gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Apply TRI-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.

ACCEPTED
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in EPA Letter Dated:

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

211-36

(POULTRY AND SWINE PREMISE USE)

DEC 20 1980

Formulated for Effective
Poultry & Swine Premise Sanitation

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

311-36

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.

EFFICACY PERFORMANCE

The broad spectrum efficacy of TRI-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:128 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

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 A.O.A.C. 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 | Hog Cholera Virus |
| Avian Laryngotracheitis Virus | Pseudorabies Virus |

8889-9
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with COMMENTS
in EPA Letter Dated:

(POULTRY AND SWINE PREMISE USE)

DEC 20 1990

AREAS OF USE
POULTRY PREMISE SANITATION (HATCHERIES)

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

- 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

211-36

APPLICATION AND USE DILUTIONS

POULTRY HOUSES:

1. Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all liter 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 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.

(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
- Blocks
- Creep Area
- Waterer & Feeder
- Nursery
- Hauling Equipment

MISCELLANEOUS

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

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Under the Federal Insecticide,
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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.

(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 ounce of TRI-CEN per gallon of water (1part 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. 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 ounce of TRI-CEN per gallon of water (1part 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 (1part 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 (1part TRI-CEN to 128 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 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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with COMMENTS
in EPA Letter Dated:

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

211-36

(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 TRI-CEN at the rate of 1 ounce per gallon of water (1:128) 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 TRI-CEN at the 1:128 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 ounce of TRI-CEN Disinfectant per gallon of water (1:128) 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 TRI-CEN (1:128 dilution). Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more.

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211-36

(AQUACULTURE USE)

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

ACCEPTED

with COMMENTS
in EPA Letter Dated:

DEC 20 1990

WARNING!!!

****MUST NOT COME IN CONTACT WITH EDIBLE CROPS****

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

211-36

GENERAL INFORMATION:

TRI-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. TRI-CEN's multisynthetic phenolic formula is designed for one-step cleaning and disinfecting hard inanimate nonporous surfaces. TRI-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:

TRI-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.

S1. 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.

(AQUACULTURE USE)

EFFICACY PERFORMANCE

The broad spectrum efficacy of TRI-CEN has been confirmed using A.O.A.C. protocol testing at a use-dilution of 1:128 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

TRI-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 TRI-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 TRI-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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 20 1960

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

211-36

(DENTAL INSTRUMENT USE)

DISINFECTANT CLEANER-SUPER CONCENTRATE FOR ULTRASONIC USE
 INSTRUMENT PRESOAK
 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)

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DIRECTIONS FOR USE

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

USE: TRI-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 1:128 (1/4 ounce of TRI-CEN per quart of water or 8 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 (1/4 oz per quart of water, or 8ml 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.

DISINFECTANT: Thoroughly clean and rinse instruments to remove excess

debris, preferably in a 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 TRI-CEN at a dilution of 1:128 (1oz TRI-CEN per gallon of water), (1/4 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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