

58300-16

2/2/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



Office of Pesticide Programs

FEB -2 2009

Kim Davis, CC, APC, Manager  
RegWest Company, LLC  
30856 Rocky Road  
Greeley, CO 80631-9375

**FILE COPY**

Subject: ConSeal International, Inc.  
SaniCide-5  
EPA Registration No. 58300-16  
Application Date: November 5, 2009  
Receipt Date: November 6, 2009

Dear Ms. Davis:

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

**Conditions:**

1. The Disinfectant claim on the front panel must be associated with Hard Non-Porous Surfaces as the claim appears on the label, it could be implied for use on Mushrooms and Vegetables.
2. The amount of available chlorine is not on the label. Please provide the amount of available chlorine below the ingredient section on the label.
3. The pre-cleaning of gross filth directions must be added the following Headings:
  - To Disinfect Walls, Ceilings and Floors
  - Control of Mold and Slime Forming Bacteria on Walls, Floors, Ceilings and Post-Crop Mushroom Growing Surfaces use direction.
4. Add **Hard, Non-Porous Surfaces** to the heading for Animal Rearing and Confinement Facilities.
5. Add the following information to Step 5 on Page 3 of the label: Prepare in well ventilated area and avoid breathing any fumes which may be produced during activation.

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6. Add the following information to step 3 of the "To Control the Buildup of Odor-and Slime-Forming Bacteria in Animals' Confinement Areas": When spraying always use an applicable NIOSH approved respirator appropriate for chlorine dioxide.
7. Bold the sub-headings under "To Control Animal Odors on Pets and in Litter Boxes, Carpets and Concrete Floors" directions for use.
8. The dilution rate for concrete floors must be changed from 5 gallons of water to per gallon of water.

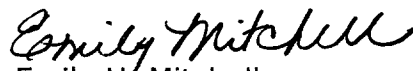
**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Please note: Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Should you have any questions or comments concerning this letter, please call Wanda Henson at (703) 308-6345.

Sincerely,



Emily H. Mitchell  
Product Manager - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

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# SaniCide™-5

5% Aqueous Stabilized Chlorine Dioxide

Mushroom and Vegetable Rinse Applications  
Disinfectant/Deodorizer

Animal Confinement Facilities Disinfectant/Deodorizer  
Poultry Houses, Swine Pens, Calf Barns and Kennels

Control Taste and Odor in Animal Confinement Facility Water Supply Systems

For Institutional or Industrial Use

<b>Active Ingredient:</b>	
Chlorine Dioxide .....	5%
<b>Other Ingredients</b> .....	95%
<b>Total</b> .....	100%

**Keep Out of Reach of Children**  
**CAUTION**

See side panels for additional precautionary statements.

EPA Reg. No. 58300-16      EPA Est. 58300-MA-1

{NSF logo}

NSF International certifies that this product conforms to the requirements of ANSI/NSF Standard 60–  
Drinking Water Treatment Chemicals–Health Effects with maximum use levels for potable water of 10 ppm.

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

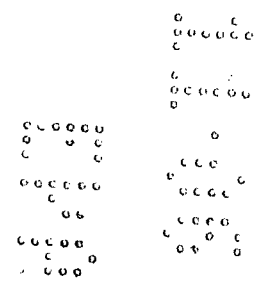
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Net Contents: \_\_\_\_\_ gallons [ounces]  
{1 pint through 55 gallons}

**ConSeal International, Inc.**  
90 Kerry Place, Suite 2  
Norwood, MA 02062  
(781) 278-0010  
info@consealint.com

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

**58300-16**  
SaniCide™ is a Trademark of ConSeal International, Inc.



{Side Panels}

### DIRECTIONS FOR USE

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

### General Information

1. Refer to **Product Data** section before using this product in the generation of chlorine dioxide for biological control in Mushroom/Vegetable Processing/Canning operations and in Animal Rearing/Confinement facilities.
2. Prior to sanitization or disinfectant treatments, thoroughly clean all surfaces/areas to be treated with a suitable detergent followed by a clean potable water rinse. Remove all gross food particles and filth using appropriate methods such as spray, dip, soak, wash, pre-flush, pre-scrape or pre-soak.
3. When preparing activated solutions: Prepare only in well-ventilated area. Avoid breathing any fumes that may be produced while activator is dissolving. Allow 15 minutes' reaction time. As an alternate activation method, adjust the pH to 4.0 with acetic, citric, phosphoric, sulfuric or hydrochloric acid.
4. When spraying or fogging disinfectant/sanitizing solutions: Solutions may be irritating when inhaled. During spraying or fogging operations, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. Do not reuse activated solutions; apply only freshly-made solutions for disinfection or sanitization.

### Mushroom and Vegetable Processing and Canning Operations

#### Product Data

**In Mushroom Facilities, such as mushroom production, spawn productions, mushroom processing and cannery operations:** Use as a terminal sanitizing rinse for stainless steel tanks, transfer lines, on-line equipment, picking baskets, picking utensils and other food contact surfaces.

1. Preparation of sanitizing solution: In a clean plastic container mix 1-1/3 fl. oz. of **SaniCide-5** concentrate with 5 gallons of clean potable water and 1.2 grams of DRA-1 (or 10 grams of DRA-2). This solution will yield a working solution containing 100 ppm available chlorine dioxide.
2. To apply: Flush picking baskets, line equipment or other food contact surfaces with active solution, making sure surface area is thoroughly wet for at least 1 minute. After sanitizing, drain treated baskets or equipment and allow to air dry. Treat after each use or production run. Discard solution after each use.

#### To Disinfect Walls, Ceilings and Floors:

1. Preparation of active disinfecting solution: Per gallon of working solution mix, in a clean plastic container, 1-1/3 fl. oz. of **SaniCide-5** concentrate with 1 gallon of clean potable water and 1.2 grams of DRA-1 (or 8.6 grams of DRA-2). This will yield a working solution containing 500 ppm available chlorine dioxide.
2. To apply: Spray disinfectant solution onto surface using a suitable spraying device and making sure that the area is thoroughly wet for at least 10 minutes. After application, allow treated surfaces to air dry. Treat as required.

#### To Control Mold- and Slime-Forming Bacteria on Walls, Floors, Ceilings and Post-Crop Mushroom Growing Surfaces:

1. Preparation of solution: Per gallon of working solution mix, in a clean plastic container, 2-2/3 fl. oz. of **SaniCide-5** concentrate with 1 gallon of clean potable water. This will yield a working solution containing 1,000 ppm available chlorine dioxide.
2. To apply: During application treatment area must be closed as tightly as possible and sealed. Drench, spray or fog solution on walls, floors, ceilings and post-crop mushroom growing surfaces using a suitable watering, spraying or fogging device, making sure all surface areas are thoroughly

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wet. After spraying or fogging, open the treatment area and ventilate for 1 hour before re-entry. Allow all treated surfaces to air dry. Avoid contact with food or food contact surfaces.

3. Repeat application as needed.

**To Control the Buildup of Odor- and Slime-Forming Bacteria in Process Waters for Vegetable Rinses and Associated Tanks, Flumes and Lines:**

1. Preparation of solution: Prepare **SaniCide-5** solutions daily. Chill tanks or vegetable rinse tanks may be batch-loaded at startup with 1/3 fl. oz. (10 ml) **SaniCide-5** per 25 gallons of potable water. This will yield a working solution containing 5 ppm available chlorine dioxide. Treat make-up waters with a chemical feed pump or injector system and apply **SaniCide-5** at the rate of 1/3 fl. oz. per 25 gallons of potable water.
2. Optional activated solution: If heavy use of rinse water is expected or if slime buildup is extreme, an additional activation step may be used in preparation of the solution.
3. Preparation of activated solution: For each 25 gallons of rinse water to be used mix, in a clean plastic container, 1/3 oz. (10 ml) of **SaniCide-5** with 1 gallon of water and 0.002 grams of DRA-1 (or 2.2 grams of DRA-2). Allow this solution to stand for 15 minutes then add 24 gallons of water to yield a solution containing 5 ppm available chlorine dioxide.
4. Chill tanks or vegetable rinse tanks may be batch-loaded at startup with activated **SaniCide-5** by mixing 1/3 fl. oz. (10 ml) **SaniCide-5** with 25 gallons of potable water. This will yield a working solution containing 5 ppm available chlorine dioxide. Treat make up waters with a chemical feed pump. To ensure accurate delivery, prepare a 1 to 10 dilution of the active concentration and maintain the feed rate of this dilution at 3-1/3 fl. oz. per 25 gallons. Prepare fresh **SaniCide-5** solutions daily.

**Animal Rearing and Confinement Facilities**

**Product Data**

**To Disinfect Commercial Animal Confinement Facilities such as Poultry Houses, Swine Pens, Calf Barns and Kennels:**

1. Remove all animals, poultry and feed from premises, vehicle enclosures, coops and crates.
2. 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.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent, then rinse with water.
5. Preparation of active disinfectant solution: In a clean plastic container mix 1-1/3 fl. oz. **SaniCide-5** concentrate with 1 gallon clean potable water and 1.2 grams of DRA-1 (or 1/4 to 1/2 (0.25 to 0.5) grams of SaniCide DRA-LT). This will yield a working solution containing 500 ppm available chlorine dioxide.
6. To apply: Using a commercial sprayer, saturate all surfaces with the activated **SaniCide-5** solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals in addition to forks, shovels and scrapers used for removing litter and manure.
7. After treatment, ventilate building, coops and other enclosed spaces and allow to air dry. Do not allow animals or poultry to re-enter the treated area until solution has dried.
8. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.

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### **Drinking Water for Poultry, Swine, Cattle and Other Livestock**

#### **To Control Taste and Odor in the Water Supply System:**

1. Prepare a solution with 5 ppm available chlorine dioxide by adding 1 part **SaniCide-5** to 10,000 parts water (a 1:10,000 dilution) (1 fl. oz. **SaniCide-5** per 75 gallons). Allow 15 minutes before delivery to livestock or poultry.
2. If the water supply has heavy contamination, prepare a solution of 11 ppm available chlorine dioxide by adding 1 part **SaniCide-5** to 4,545 parts water (a 1:4,545 dilution) (1 fl. oz. **SaniCide-5** per 35.5 gallons). Allow 15 minutes before delivery to livestock or poultry.
3. After 24 hours, reduce the addition rate to 1 ppm available chlorine dioxide by adding 1 gallon of **SaniCide-5** to each 50,000 gallons of animal drinking water, provided the terminal concentration at the end of the waterline is not less than 0.5 ppm.
4. Continuously treat the water from day one. Remove **SaniCide-5** from drinking water 24 hours prior to vaccinations, then resume treatment 24 hours after vaccinations. **Note:** *This product is not intended for use in human drinking water and treated water must not be made available for human consumption.*

#### **To Control the Buildup of Odor- and Slime-Forming Bacteria in Animals' Confinement Areas:**

1. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, cases and other facilities and fixtures occupied or traversed by animals.
2. Preparation of solution: In a clean plastic container mix 2-2/3 fl. oz. of **SaniCide-5** concentrate with 1 gallon of clean potable water. This solution will yield 1,000 ppm available chlorine dioxide.
3. To apply: Using a commercial sprayer, saturate all surfaces with the **SaniCide-5** solution.

#### **To Control Animal Odors on Pets and in Litter Boxes, Carpets and Concrete Floors:**

1. For litter boxes: Wash empty litter boxes with a suitable detergent and rinse with clean potable water. Soak boxes overnight in a solution made by mixing 1 oz. **SaniCide-5** concentrate with 2-1/2 quarts water. This will yield a solution containing 625 ppm available chlorine dioxide. Allow boxes to air dry before filling with clean litter. Add litter and liberally sprinkle the litter surface with the **SaniCide-5** solution.
2. For controlling odors in carpets: Mix 1-1/4 oz. **SaniCide-5** in 1 gallon rug shampoo solution or 1 gallon rinse water. This will yield a solution containing 500 ppm available chlorine dioxide. Shampoo carpets and allow to air dry. **Note:** **SaniCide-5** may bleach some carpets and fabrics, especially if applied on top of another chemical agent. Do not make general application until a small sample, in an inconspicuous area, has been treated and observed for at least 24 hours.
3. For concrete floors: Thoroughly clean floor using a suitable detergent, then rinse with clean water. Mix 3-1/4 oz. **SaniCide-5** concentrate with 5 gallons of water. This will yield a solution containing 1,250 ppm available chlorine dioxide. Mop or liberally spray solution onto floor and allow to air dry.
4. For animal baths: Wash animal with an appropriate pet shampoo and rinse with clean water. Prepare solution by mixing 1/4 oz. **SaniCide-5** concentrate with 1 gallon water. This will yield a solution containing 100 ppm available chlorine dioxide. Thoroughly rinse animal with solution and allow to air dry. Do not allow solution to contact animals' eyes, nose or ears.
5. For treating animal odors with high levels of ammonia: Thoroughly wash area to be treated with a suitable detergent and rinse with clean water. Preparation of solution: For each gallon of solution mix, in a clean plastic container, 1-2/3 oz. **SaniCide-5** concentrate with 1 tablespoon household bleach. Allow this solution to react for 5 minutes. Dilute with 1 gallon clean potable water. Apply by mopping or liberally spraying solution onto area. Allow to air dry. Additional applications may be necessary.

**To Disinfect Nonporous Hard Surfaces such as Walls, Ceilings and Floors:**

1. Preparation of active disinfecting solution: In a clean plastic container mix 1-1/3 fl. oz. of **SaniCide-5** concentrate with 1 gallon water and 1.2 grams DRA-1 (or 1/4 to 1/2 (0.25 to 0.5) grams of SaniCide DRA-LT). This will yield a working solution containing 500 ppm available chlorine dioxide.
2. To apply: Activated solution may be sprayed, mopped or sponged onto surfaces to be disinfected. All surfaces must be thoroughly wet for at least 10 minutes. Use an appropriate spraying device. After application, allow treated surfaces to air dry. Treat as required.

*{For product in containers 1 pint through 5 gallons:}*

**Storage and Disposal**

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

**Storage:** Do not store with easily oxidizable materials, acids, reducers or combustible materials. Avoid heat or freezing conditions. Store upright and do not stack drums over two high on pallets or partially filled drums. Use of a drum pump is suggested. Keep drum tightly closed when not withdrawing liquid. In case of spills, dilute with large quantities of water. Do not allow liquid to dry; this could present a fire hazard. Store only in original container and take care to prevent cross-contamination with fertilizers, food, feed or other pesticides. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

*{For product packaged in containers greater than 5 gallons:}*

**Storage and Disposal**

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

**Pesticide Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

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**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**CAUTION**

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Thoroughly wash with soap and water after handling.

**First Aid**

Have the product container or label with you when calling a poison control center or doctor or when going for treatment. [You may also contact {phone number} for emergency medical treatment information.]	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>Note to Physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

{Note: The first aid statements' grid format will be used only if market label space permits; otherwise a paragraph format will be used.}

**Physical and Chemical Hazards**

Stabilized chlorine dioxide is a strong oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc. may cause a chemical reaction, resulting in evolution of chlorine dioxide gasses and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution.

**Environmental Hazards**

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other public waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State water board or Regional Office of the EPA.

**Emergency Handling**

In case of contamination or decomposition, do not reseal container; isolate in an open, well-ventilated area and flood with large volumes of water. Cool unopened drums in vicinity by water spray.



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**Notice:** Seller expressly warrants that the product conforms to its chemical description. To the extent permitted by applicable law, there are no warranties associated with the sale of this product, either express or implied, including but not limited to, the warranties of fitness for a particular purpose or use.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on the market label.