



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 4, 2016

Bob MacDonald  
Agent for Cid Lines N.V.  
Scientific & Regulatory Consultants, Inc.  
201 W. Van Buren Street  
Columbia City, IN 46725

Subject: Notification per PRN 98-10 – To update label language  
Product Name: Virocid  
EPA Registration Number: 71355-1  
Application Date: December 3, 2015  
Decision Number: 511825

Dear Mr. MacDonald:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

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.

If you have any questions, you may contact please contact Emilia Oiguenblik by phone at 703 347 0199, or via email at [Oiguenblik.emilia@epa.gov](mailto:Oiguenblik.emilia@epa.gov) or Eric Miederhoff by phone at 703 347 8028, or via email at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov)

Sincerely,

A handwritten signature in blue ink that reads "E. Miederhoff". The signature is written in a cursive style with a large, stylized initial "E".

Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs  
Date: January 4, 2016

**NOTIFICATION**

71355-1

December 2, 2015  
Page 1 of 6

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/04/2016

# VIROCID

CONCENTRATED BROAD SPECTRUM DISINFECTANT

**Active Ingredients:**

ALKYL *DIMETHYL BENZYL AMMONIUM CHLORIDE *(50% C <sub>14</sub> ; 40% C <sub>12</sub> ; 10% C <sub>16</sub> ).....	17.060%
DIDECYL DIMETHYL AMMONIUM CHLORIDE .....	7.800%
GLUTARALDEHYDE.....	10.725%
<b>Other Ingredients:</b> .....	<b>64.415%</b>
Total.....	100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

VIROCID is effective against:

BACTERIA	DILUTION
<i>Salmonella enterica</i> (formerly <i>S. choleraesuis</i> )*	1:400
<i>Staphylococcus aureus</i> *	1:400
<i>Pseudomonas aeruginosa</i> *	1:400
<i>Campylobacter jejuni</i> *	1:400
<i>Corynebacterium pseudotuberculosis</i> *	1:400
<i>Avibacterium paragallinarum</i> (formerly <i>H. paragallinarum</i> )*	1:400
<i>Klebsiella pneumoniae</i> *	1:400
<i>Listeria monocytogenes</i> *	1:400
<i>Mycoplasma gallisepticum</i> *	1:400
<i>Mycoplasma synoviae</i> *	1:400
<i>Ornithobacterium rhinotracheale</i> *	1:400
<i>Salmonella enterica</i> (formerly <i>S. enteritidis</i> )*	1:400
<i>Mycoplasma hyopneumoniae</i> **	1:400
<i>Streptococcus suis</i> *	1:400
<i>Salmonella enterica</i> (formerly <i>S. typhisuis</i> )*	1:400
<i>Escherichia coli</i> *	1:400
<i>Bordetella avium</i> *	1:256
<i>Salmonella enterica</i> (formerly <i>S. pullorum</i> )*	1:256
<b>FUNGUS (on environmental surfaces)</b>	
<i>Fusarium dimerum</i> *	1:400
<i>Penicillium expansum</i> *	1:400
<i>Trichophyton mentagrophytes</i>	1:400
<b>VIRUS (on environmental surfaces)</b>	
Porcine circovirus, type II [PCV, PT-1 cell]*	1:200
Pseudorabies [American BioResearch Laboratories]*	1:400
Porcine Respiratory and Reproductive Syndrome [Arko Laboratories]*	1:400
Avian Reovirus [Spafas Strain]*	1:256
Marek's Disease [Spafas Strain]*	1:400
Newcastle Disease [Spafas Strain]*	1:400
Avian Influenza [Turkey/Wis/66 strain-H9N2]*	1:400
Human Influenza A (H1N1)*	1:400
Swine Influenza A (H1N1)*	1:400
Avian Infectious Laryngotracheitis [Charles River Laboratories]*	1:400
Infectious Bursal Disease [Spafas Strain 2512]*	1:400
<b>Algae and slime forming bacteria in recirculating water cooling systems and evaporative condensers</b>	<b>25-50 ppm</b>
*in the presence of 400 ppm AOAC synthetic hard water and 5% soil load	
**in the presence of 400 ppm AOAC synthetic hard water and 25% soil load	

Note: Bracketed[ ] information is optional text. Text separated by a comma(,)denotes-and/or-options. {Bracketed Text}is for administrative purposes only and will not appear on the printed label.

<b>FIRST AID</b>	
<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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately 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 the poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</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 mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>[For emergency information on [product, use, etc.], call the <b>National Pesticide Information Center</b> at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center at 1-800-222-1222. Have a product label with you when calling the poison control center, doctor, or going for medical treatment.]</p> <p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage</p>	

## **APPLICATION:**

### **Disinfection of non-food surfaces, farm, animal, and poultry housing facilities and equipment:**

1. Farm equipment and animal housing buildings (poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings)
2. Hatchers, setters, and chick processing facilities
3. Food processing plants (slaughterhouses)
4. Trucks and other vehicles

### **Fogging hatchery rooms, incubators, and hatchers, poultry houses and livestock buildings (except for California).**

### **Control of algae and slime forming bacteria in recirculating water cooling systems and evaporative condensers.**

## **DIRECTIONS FOR USE:**

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

### **Foam cleaning prior to sanitization or disinfection:**

Prior to sanitization or disinfection, VIROCID may be used to clean food and non-food contact environmental surfaces. VIROCID may be applied to environmental or equipment surfaces using conventional foam-generating equipment.

### **Disinfection of non-food surfaces, farm, animal, and poultry housing facilities and equipment:**

1. **Farm equipment and animal housing buildings (poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings):**

For disinfection of hard, non-porous surfaces: stainless, galvanized and painted steel, copper, aluminum, finished wood, vinyl, plastics, glazed tiles, sealed brick walls, aluminum sandwich panels and feeding/drinking equipment:

- A. 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.
- B. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with the appropriate disinfection solution<sup>†</sup> by using a coarse spray, mop, or sponge. Surfaces must remain wet for 10 minutes.

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- C. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed or dried.
- D. Thoroughly scrub treated feed racks, troughs, and other feeding and water appliances with soap or detergent and rinse with potable water before reuse.
- E. Disinfection of equipment: Immerse all halters, ropes, and other types of restraining equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the appropriate disinfection solution<sup>†</sup> for 10 minutes. Allow to air dry.
- F. Fresh disinfection solution should be made daily or if visibly soiled.

**2. Hatcheries:**

Remove all animals from the area. Thoroughly clean all surfaces (hatchers, setters, trays, racks, carts, sexing tables, chick boxes, cages) with soap or detergent, then rinse with water. Saturate all surfaces with the appropriate disinfection solution<sup>†</sup> by using a coarse spray, mop, or sponge. Surfaces must remain wet for 10 minutes. Do not house animals or employ equipment until surfaces have been absorbed or dried. Fresh disinfection solution must be made daily or if visibly soiled.

**3. Food processing plants (including Chicken Processing Facilities):**

Before using this product, all food products and packaging materials must be removed from the room or carefully protected. Thoroughly clean all surfaces with soap or detergent, then rinse with water. Disinfect hard, non-porous surfaces by applying the appropriate disinfection solution<sup>†</sup> with a coarse spray, mop, or sponge. All surfaces must remain thoroughly wet for 10 minutes. Allow to air dry. A potable water rinse is required for all surfaces that come into contact with food.

**4. Trucks and other vehicles:**

Clean all vehicles including mats, crates, cabs, and wheels with high pressure water. Use the appropriate disinfection solution<sup>†</sup> to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes. Allow to air dry.

**Preparation table:**

Dilution	Preparation Method
1:400	1/3 fluid ounce per gallon of water
1:256	1/2 fluid ounce per gallon of water
1:200	2/3 fluid ounce per gallon of water

<sup>†</sup> See organism and preparation table to determine the appropriate disinfection solution.

**Fogging hatchery rooms, incubators and hatchers, poultry houses and livestock buildings (except for California):**

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Close room off so fog is confined to the room being treated. Hatchery ventilation system must remain on during fogging. Wear a dust mist respirator when making the use solution and pouring into the fogging apparatus.

**A. Hatchery rooms:**

Vacate all personnel from hatchery room to be fogged. Close room off so fog is confined to room to be treated. Prepare a stock solution of one (1) part VIROCID to forty-two (42) parts water (3 fluid ounces VIROCID to 125 fluid ounce water). Insert the nozzle of the fogging device through a suitable opening in the room. With the setting on maximum output, fog 3.8 fluid ounces per 10,000 cubic feet for the designated fogging time in the table below. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted.

**Note:** Re-entry intervals (REI) and personnel protection equipment (PPE) are determined by the following hatchery room air exchange rates (ACH) per hour. Under no circumstances must the hatchery room be entered by unprotected persons before the listed re-entry intervals. If hatchery room must be entered, before the listed re-entry intervals, the individuals entering the room must wear a long sleeve shirt and pants and an approved NIOSH/MSHA full facepiece respirator, such as the 3M 6700-6900 series, with an organic vapor cartridge, such as the 3M 5N11 and 3M 501 filter retainer.

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**ACH table:**

Hatchery Rooms/Incubators/Hatchers	Fogging Time	Re-entry Intervals (REI)	PPE Required
8 air exchanges/hour	5 minutes	25 minutes	None required
12 air exchanges/hour	7.5 minutes	15 minutes	None required
16 air exchanges/hour	10 minutes	10 minutes	None required
20 air exchanges/hour	12.5 minutes	10 minutes	None required
24 air exchanges/hour	15 minutes	10 minutes	None required

**B. Incubators and hatchers:**

Remove poultry, chicks and eggs prior to treatment of setters and hatchers. Not for treatment of hatchers which contain chicks or eggs.

Prepare a stock solution of one (1) part of VIROCID to **forty-two** (42) parts water (3 fluid ounces VIROCID to 125 fluid ounces water). Fog at a rate of 3.8 ounces /10,000 cubic feet for fogging times specified in table above into setters and hatchers immediately after transfer. Repeat daily. Discontinue hatcher treatments approximately 24 hours before pulling the hatch. Do not allow people to contact or breathe this fog and do not enter machines until the fog has exhausted. To do this, install permanent fogging nozzles in setters and hatchers and use an air compressor to disperse the sanitizing solution as a fog. It is also satisfactory to fog setters and hatchers with a 1:1000 solution of VIROCID. If this is done, fog for 30-90 seconds once per hour or once every two hours.

**C. Poultry houses and livestock buildings:**

After the house has been depopulated and cleaned as in 1. A to F under “Disinfection of non-food surfaces, farm, animal, and poultry housing facilities and equipment”, double check to be sure all people, poultry, livestock and pets have vacated the building. Close all windows, doors, curtains, etc. making the house as closed as tight as possible.

Prepare a stock solution of one (1) part VIROCID to four (4) parts water (25 fluid ounce VIROCID to 100 fluid ounce water). Insert the nozzle of the fogging device through a suitable opening in the room. With the setting on maximum output, fog 125 fluid ounces for each 1000 cubic yard. Place the fogger just inside the door of the building to be treated, or insert nozzle of the fogger through a suitable opening in the door or building. The opening must be just large enough to accommodate the nozzle.

After fogging, the building must be kept closed for twenty-four hours. After twenty-four hours, open the house and air for a minimum of twenty-four hours before it is repopulated with poultry or livestock.

**Note:** The generated fog is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled. A reentry time of 2 hours is required after the actual fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt, sleeves and pants. If feeders and waterers were not removed from the premise during treatment, or were not adequately covered to prevent contact with treatment, they must be washed with detergent and water before use for poultry or livestock.

**Control of algae and slime forming bacteria in recirculating water cooling systems and evaporative condensers:**

- A. VIROCID must be added in the system directly at a point where uniform mixing and even distribution will occur. Do not mix with any other chemicals or additives.
- B. Severely fouled systems must be chemically and/or manually cleaned before adding VIROCID treatment. If algae/slime growth is absent or minimal, proceed with the initial dose.
- C. **Initial Dose:** 2.5 fluid ounces of VIROCID per 100 gallons of water (50 ppm) in the system. Repeat treatment until algae/slime growth is controlled.  
**Maintenance Dose:** After algae control is evident/achieved, apply 1.25 fluid ounces of VIROCID per 100 gallons of water (25 ppm) in the system every 7 days (weekly). Repeat treatment as needed to maintain algae/slime control.

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## STORAGE AND DISPOSAL:

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

**Storage:** Store in a cool, dry place in tightly closed container away from children. Avoid temperatures below 23°F and above 113°F.

**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 instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. *{Insert applicable triple rinse instruction for container size below}* Recycle container, if available, or dispose of in a sanitary landfill.

*{For containers equal to or less than 5 gallons}*

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 ¼ 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.

*{For containers greater than 5 gallons}*

Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container ¼ 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. Empty rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

## PRECAUTIONARY STATEMENTS:

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Hazards to humans and domestic animals

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, protective clothing, and rubber gloves. Harmful if inhaled. Avoid breathing vapor. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

## ENVIRONMENTAL HAZARDS:

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

### LIMITED WARRANTY AND DISCLAIMER:

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is a reasonable fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible expert's evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. The manufacturer neither makes nor intends, nor does it authorize any agent or representative to make, any other warranties, expressed or implied, and it expressly excludes and disclaims all implied warranties or merchantability and fitness for particular purpose. This warranty does not extend to, and the buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions. Buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages, or injuries resulting from the use or handling of this product, whether or not such liability is based in the contract, negligence, strict liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall manufacturer or seller be liable for special, indirect or consequential damages resulting from the use or handling of this product.

EPA Reg. No. 71355-1

EPA Est. No. 71355-BEL-001

Batch No: See top/bottom

Expiry Date: See top/bottom

Net Contents: See top/bottom

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*{net contents will appear on front panel; registration numbers, batch no. and expiry date may appear on any panel}*

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