

ACCEPTED
 10/3/2022
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 71355-1

VIROCID
 CONCENTRATED BROAD SPECTRUM DISINFECTANT

Active Ingredients:	
ALKYL *DIMETHYL BENZYL AMMONIUM CHLORIDE *(50% C14; 40% C12; 10% C16).....	17.060%
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7.800%
GLUTARALDEHYDE.....	10.725%
Other Ingredients:	<u>64.415%</u>
Total.....	100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

[Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label.]

VIROCID is effective against:

BACTERIA	DILUTION
<i>Salmonella enterica</i> (formerly <i>S. choleraesuis</i>)* [ATCC 10708]	1:170
<i>Staphylococcus aureus</i> * [ATCC 6538]	1:170
<i>Campylobacter jejuni</i> **[ATCC 33560]	1:400
<i>Corynebacterium pseudotuberculosis</i> **[ATCC19410]	1:400
<i>Avibacterium paragallinarum</i> (formerly <i>H. paragallinarum</i>)**[ATCC 29975]	1:400
<i>Klebsiella pneumoniae</i> **[ATCC 13883]	1:400
<i>Listeria monocytogenes</i> **[ATCC 19115]	1:400
<i>Mycoplasma gallisepticum</i> **[ATCC 19610]	1:400
<i>Mycoplasma synoviae</i> ** [ATCC 25204]	1:400
<i>Ornithobacterium rhinotracheale</i> ** [ATCC 51463]	1:400
<i>Salmonella enterica</i> subspecies <i>enteritidis</i> **[ATCC 13076]	1:400
<i>Mycoplasma hyopneumoniae</i> ***[ATCC 25934]	1:400
<i>Streptococcus suis</i> ** [ATCC 43765]	1:400
<i>Salmonella enterica</i> subspecies <i>typhisuis</i> ** [ATCC 8321]	1:400
<i>Escherichia coli</i> ** [ATCC 11229]	1:400
<i>Bordetella avium</i> ** [ATCC 35086]	1:256
<i>Salmonella enterica</i> subspecies <i>pullorum</i> **[ATCC 9120]	1:256
<i>Enterococcus cecorum</i> *[ATC43198]	1:512
<i>Salmonella enterica</i> subspecies <i>enterica</i> serovar <i>Reading</i> ** [ATCC6967]	1:128
FUNGUS (on environmental surfaces)	
<i>Fusarium dimerum</i> ** [ATCC 16553]	1:400
<i>Penicillium expansum</i> ** [ATCC 7861]	1:400
<i>Trichophyton mentagrophytes</i> * [ATCC 9533]	1:400
VIRUS (on environmental surfaces)	
Porcine circovirus, type II [PCV, American BioResearch Laboratories]**	1:200
Pseudorabies [American BioResearch Laboratories]**	1:400
Porcine Respiratory and Reproductive Syndrome [Arko Laboratories]**	1:400
Avian Reovirus [CRL SPAFAS]**	1:256
SARS-Related Coronavirus 2 [SARS-CoV-2] [USA-WA1/2020][BEI NR-52281]**	1:400
Marek's Disease [CRL SPAFAS]**	1:400
Newcastle Disease [CRL SPAFAS]**	1:400
Porcine Epidemic Diarrhea Virus**	1:400
Avian Influenza [Turkey/Wis/66 (H9N2)]**	1:400
Avian Infectious Laryngotracheitis [CRL]**	1:400
Infectious Bursal Disease [CRL SPAFAS 2512]*	1:400
African Swine Fever Virus****	1:200
Algae and slime forming bacteria in recirculating water cooling systems and evaporative condensers	25-50 ppm
<p>*in the presence of 400 ppm AOAC synthetic hard water **in the presence of 400 ppm AOAC synthetic hard water in 5% soil load *** in the presence of 400 ppm AOAC synthetic hard water and 25% soil load ****approved for hard porous and non-porous surfaces, in the presence of up to 394 ppm OECD hard water and organic soil load [23% v/v solution of 0.35% yeast extract, 0.25% BSA, and 0.08% bovine mucin)</p>	

PRECAUTIONARY STATEMENTS:

Hazards to humans and domestic animals

DANGER. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, protective clothing, and rubber gloves. Do not breath spray mist. Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with a HE filter. 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.

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
IF ON SKIN	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything to an unconscious person.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>[For emergency information on [product, use, etc.], call the National Pesticide Information Center 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>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage</p>	

APPLICATION:

Disinfection of non-food surfaces, farm, greenhouses, 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
5. Greenhouses
6. Shoebaths

Cleaning by fogging hatchery rooms, incubators, and hatchers, poultry houses, and livestock buildings.

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 disinfection:

Prior to 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. Cleaning food contact environmental surfaces must be followed by a potable rinse.

Disinfection of non-food surfaces, farm, animal, greenhouses 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[†] by using a coarse spray, mop, or sponge. Surfaces must remain visibly wet for 10 minutes.
- 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 previously cleaned 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[†] 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 hard non-porous 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[†] by using a coarse spray, mop, or sponge. Surfaces must remain visibly 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[†] with a coarse spray, mop, or sponge. All surfaces must remain visibly 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[†] to treat all vehicles. Leave all treated hard non-porous surfaces exposed to disinfectant solution visibly wet for 10 minutes. Allow to air dry.

5. Greenhouses

For disinfection of hard, non-porous surfaces such as walls, floors, ceilings, pots, flats, tools, clippers, cutting equipment, crates, glass, walkways and benches. While using the product, protect all food plant and food products from exposure. Prior to use, thoroughly clean all surfaces and rinse with water. Disinfect hard, non-porous surfaces by applying the appropriate disinfection solution[†] with a coarse spray, mop, sponge or by dipping. Surfaces must remain visibly wet for 10 minutes. Allow to air dry. A potable water rinse is required for all surfaces that come into contact with food. Fresh solution should be made daily or if visibly soiled.

6. Shoebaths

Prepare the appropriate disinfection solution[†]. Pour the solution into a footbath to a depth of ½" to 1" or on a foot mat to the top of the ribs. First, clean hard, non-porous shoes or boots of all debris by scraping. To clean footwear, maintain product contact for at least 30 seconds. Fresh solution should be made daily or if visibly soiled.

Preparation table:

Dilution	Preparation Method		
1:128 (0.78%)	1 fl oz per gal of water	7.82 mL Virocid per L of water	~7813 ppm
1:170 (0.59%)	¾ fl oz per gal of water	5.87 mL Virocid per L of water	~5882 ppm
1:200 (0.50%)	⅔ fl oz per gal of water	5.01 mL Virocid per L of water	~5000 ppm
1:256 (0.39%)	½ fl oz per gal of water	3.91 mL Virocid per L of water	~3906 ppm
1:400 (0.25%)	⅓ fl oz per gal of water	2.50 mL Virocid per L of water	~2500 ppm
1:512 (0.20%)	¼ fl oz per gal of water	1.96 mL Virocid per L of water	~1953 ppm

[†] See organism and preparation table to determine the appropriate disinfection solution.

Fogging to clean hatchery rooms, incubators and hatchers, poultry houses,, and livestock

buildings: All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. 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.

To clean by 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 mixing 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 full facepiece respirator with an organic vapor cartridge or canister with any R, P, or HE filter.

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 NIOSH approved self-contained respirator, 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.

STORAGE AND DISPOSAL:

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 begin 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.

ENVIRONMENTAL HAZARDS:

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
 Batch No: See top/bottom
 Net Contents: See top/bottom

EPA Est. No. 71355-BEL-001, 101874-IA-1
 Expiry Date: See top/bottom

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



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{Emerging Viral Pathogens}

"This product qualifies for emerging viral pathogen claims per the EPA's 'Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels' when used in accordance with the appropriate use directions indicated below.

This product meets the criteria to make claims against certain emerging pathogens from the following viral categories:

-Enveloped Viruses

-Large Non-Enveloped Viruses

<i>For an emerging viral pathogen that is a/an...</i>	<i>...follow the directions for use for the following organisms on the label:</i>
Enveloped virus	Porcine circovirus Type II
Large, non-enveloped virus	Porcine circovirus Type II

Acceptable claim language:

This product [**-or- Product Name**] has demonstrated effectiveness against viruses similar to [**Insert name of emerging virus**] on hard, nonporous surfaces. Therefore, this product [**-or-Product Name**] can be used against [**Insert name of emerging virus**] when used in accordance with the directions for use against Porcine circovirus Type II on hard, nonporous surfaces. Refer to the [**CDC -or- OIE**] website at [**website address**] for additional information.

[**Insert name of illness/outbreak**] is caused by [**Insert name of emerging virus**]. This product [**-or- Product Name**] kills similar viruses and therefore can be used against [**Insert name of emerging virus**] when used in accordance with the directions for use against Porcine circovirus Type II on hard, nonporous surfaces. Refer to the [**CDC -or- OIE**] website at [**website address**] for additional information.

Effective against SARS-Related Coronavirus 2 [SARS-CoV-2][USA-WA1/2020][in 1 minute] on hard nonporous surfaces*

*[Refer to the Usage Table for solution concentration and contact times]

{Animal Pathogens}

This product {or marketed product name} is effective against the following animal pathogen on hard porous and hard non-porous inanimate surfaces

-African Swine Fever* [(ASFV)]

*[Refer to the Usage Table for solution concentration and contact times]