



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

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OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MAY 2 1 2010

Susan M. Schaner **Du Pont Chemicals and Fluoroproducts**P.O. Box 80402

Wilmington, DE 19880-0402

Subject:

Virkon® S

EPA Registration No.: 71654-6 Application Date: April 12, 2010 Receipt Date: April 21, 2010

Dear Ms. Schaner:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c) 9.

Proposed Notification:

- Updating Storage and Disposal Update PR Notice 2007-4
- Update Directions for Use

General Comment:

Based on a review of the material submitted, the following comment applies:

A copy of the accepted notification has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, you may contact me by telephone at (703) 308-6416 or by e-mail at campbell-mcfarlane.jacqueline@epa.gov or Stacey Grigsby by telephone at (703) 305-6440 or by e-mail at grigsby.stacey@epa.gov epa.gov during the hours of 8:00am to 4:00pm EST. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely.

Jacqueline McFarlane

Product Manager (34)

Regulatory Management Branch II Antimicrobials Division (7510P)

				20417
Please read instructions on reverse before com ag form.		Form Approve	MB No. 2070-0	060, Approval expires 05-31-98
O DO United St	ates	☐ Registra	ation	OPP Identifier Number
EPA Environmental Pro	tection Agency	☐ Amendr	nent	
Washington, I	OC 20460	<u> </u>	lotification	
App	lication for Pes	ticide - Section		
1. Company/Product Number	2. EPA P	roduct Manager		3. Proposed Classification
71654-6		ne McFarlane (acti	ing)	
Company/Product (Name) Virkon S	PM#	eam 34	i	None Restricted
5. Name and Address of Applicant (Include ZIP Code)	6. Expe	dited Review. In	accordance wil	th FIFRA Section 3(c)(3)
E.I. du Pont de Nemours and Company DuPont Chemical Solutions Enterprise	1 7 7 7 7	y product is simila	r or identical in	composition and labeling
P.O. Box 80402 (E403-3224D)	to:	g. No		
Wilmington, DE 19880-0402		9. 110.		·
Attn: Susan M. Schaner	Product	Name		
Check if this is a new address				
	Section	n - II		
Amendment - Explain below.		Final printed labe	els in response to	Agency letter dated
Resubmission in response to Agency letter dated	-	"Me Too" Applicat		
Notification - Explain below. Explanation: Use additional page(s) if neces	Cor Costion	Other - Explain b		1
Explanation: Ose additional page(s) it neces	sary. (For Section	n rand Section II.)		
This notification is to correct the master label posted of	n the PPLS website.			
<u> </u>				, , , , , , , , , , , , , , , , , , ,
This notification is consistent with the provisions of PR made to the labeling or the confidential statement of for		=		-
willfully make any false statement to EPA. I further und				
CFR 152.46, this product may be in violation of FIFRA a				
FIFRA.				
	Section	n - III		
Material This Product Will Be Packaged In:		1W-4 Q-1-11- B1		0 T
Child-Resistant Packaging Unit Packaging Yes* Unit Packaging Yes		Water Soluble Pack	aging	2. Type of Container Metal
□ No □ No		∏ No		Plastic
If "Yes"	No. per	If "Yes"	No. per	Glass
*Certification must Unit Packaging v	vgt. container	Package wgt.	container	Paper
be submitted				Other (Specifiy)
	ize(s) Retail Containe	er		Label Directions
Label Container			On Label	g accompañying groduct
6. Manner in Which Label is Affixed to Product	Lithograph	Other	On labeling	g accompanying product
	Paper glued			0000
Stenciled Section - IV				
			0.000	0 0 0
1. Contact Point (Complete items directly below for identi		o be contacted, if nece	ssary, to process	thic application)
Name Susan M. Schaner	-Title Regulatory Co	ordinator	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	elephone No. (Include Area Code) (302) 695-2328
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I Received				
acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.				
2. Signature	3. Title			
Susan M. Schair	Regulatory C	Coordinator		·
4. Typed Name Susan M. Schaper	5. Date 09-Apr-2010			·

DuPont Chemicals and Fluoroproduc P. O. Box 80402 Wilmington, DE 19880-0402



DuPont Chemicals and Fluoroproducts

April 13, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
Jacqueline McFarlane (PM34)
2777 South Crystal Drive
Arlington, VA 22202-4501

SUBJECT: Virkon® S, EPA Registration #: 71654-6
Notification to correct the master label on PPLS Website

Dear Ms. McFarlane,

It has come to our attention that the label posted on the PPLS website for the above referenced product related to the PR 2007-4 notification is incorrect. The posted label is from a submission that received pin-punch May 20, 2008. The May 2008 submission did not contain upgraded container disposal language and has directions for use which have not been accepted to date.

Please consider this letter and its attachments as a notification to correct the master label for the above referenced product. The attached label also incorporates the revision required by your July 1, 2009 Accepted with Comments letter.

Please refer to the attached:

- ➤ Completed application for Pesticide Registration (EPA form 8570-1) dated April 9, 2010
- > Two copies of the master label (one with corrections highlighted) (14 pages ea)
- > One copy of label posted on PPLS Website dated July 1, 2009 (16 pages)
- ➤ One CD with Master e-label, 071654.00006.20100409.MasterVirkonS.Corrected.pdf

Should you have any questions, please feel free to call me at (302)695-2328 occor email susan.m.schaner@usa.dupont.com.

Sincerely,

Susan M. Schaner

Regulatory Coordinator

Suson M. Saha

DuPont Chemicals and Fluoroproducts

Virkon® S Disinfectant and Virucide

BROAD SPECTRUM DISINIFECTANT, FUNGICIDE & ALGAECIDE [OPT]

[Fragrance Free] [Reduced Dye] [Fragrance and Dye Free] [OPT]

For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities
For Use in Emergency Disease Control [OPT]

•Fungi

Effective against
•Viruses
Including Canine Parvovirus [OPT]
•Bacteria

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	21.41%
Sodium Chloride	1.50%
OTHER INGREDIENTS	<u>77.09%</u>
TOTAL	100.00%

Equivalent to 9.75% Available Chlorine

DANGER/PELIGRO

See Inside Booklet for Additional Precautions [OPT]
See leaflet for additional directions for use [OPT]

POWDER FORM [OPT]		, , , , , , , , , , , , , , , , , , ,
TABLET FORM [OPT]		0 € 0 G G C C C C
SACHET FORM [OPT]	0 0 0 0 0	6
Copyright © 2006-2010 E. I. du Pont de Nemours and Company All Rights Reser	ved. ¿	0 0 0 0 0 0
Virkon® S is a registered trademark of and manufactured by <u>Antec Internat</u> Company		0 0

<Lot or batch #>

EPA Reg. No. 71654-6

EPA Est. No. XXXXX-YY-ZZZ

Front Panel Continued

FIRST AID			
If in Eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice. 		
If on Skin or Clothing:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice. 		
If Swallowed:	 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 by mouth to an unconscious person 		
	HOT LINE NUMBER		

HOT LINE NUMBER

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas). Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured for:

E.I. DuPont de Nemours and Company

PO Box 80023

Wilmington, DE 19880-0023

Questions? Call 1-800-441-7515

Outside the US, contact: 1-302-774-1000

US Patent No. 4822512

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS:

ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae

Bacillus cereus

Brucella abortus

Campylobacter jejuni

Clostridium perfringens

Dermatophilus congolensis

Escherichia coli

Klebsiella pneumoniae

Mycoplasma gallisepticum

Pasteurella multocida

Pseudomonas aeruginosa

Salmonella enterica

Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus

Staphylococcus epidermidis

Streptococcus pyogenes

Streptococcus suis

Not approved in California for use against

the following bacteria:

Bordetella avium

Bordetella bronchiseptica

Fistulous withers (Poll Evil)

Haemophilus somnus

Helicobacter pylori

Listeria monocytogenes

Moraxella bovis (Pink Eye)

Mycoplasma hyopneumonia

Mycoplasma mycoides

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis

Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses: Adenovirus Pneumonia

African Horse Sickness Virus

African Swine Fever Virus (tested with 1%

soil load and 342 ppm hard water)

Bovine Polyoma Virus

Bovine Pseudocowpox Virus

Bovine Viral Diarrhea Virus (no hard water)

Calf Rotavirus (no hard water)

Canine Coronavirus

Canine Parainfluenza Virus

Chicken Anemia Virus

Coital Exantherma Virus

Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp

Fever)

Equine Arteritis Virus (no hard water)

Not approved in California cont.

Equine Contagious Abortion Virus

Equine Papillomatosis Virus

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus

Infectious Bursal Disease Virus

Infectious Canine Hepatitis Virus

Infectious Pancreatic Necrosis Virus

Infectious Salmon Anaemia Virus

Infective Bovine Rhinotracheitis Virus (no

hard water)

Leptospira Canicola Virus

Maedi- Visna Virus

Marek's Disease Virus

Mouse Parvovirus

PCV2 Virus (PMWS)

Porcine Parvovirus

Porcine Reproductive and Respiratory

Syndrome Virus (PRRS)

Pseudorabies Virus (Aujesky's Disease) (no

hard water)

Rotaviral Diarrhea Virus

Snakehead rhabdovirus

Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus

Vesicular Stomatitis Virus 00000

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:
Aspergillus fumigatus
Fusarium moniliforme
Microsporum canis
Trichophyton spp. (Ringworm)
Trichophyton spp. (Mud Fever)

PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani
Botrytis cinera
Colletotrichum coccodes
Didymella bryoniae
Fusarium oxysporum
Fusarium solani
Penicillium oxalicum
Phomopsis sclerotioides

Pyrenochaeta lycoopersici Pythium aphanidermatium Rhizoctonia solani Sclerotinia sclerotiorum Thielaviopsis basicola Verticillium dahliae Xanthomonas axonopodis

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS

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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT

Virkon® S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – *Not Approved for this use in California*), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."

Respiratory illnesses attributable to Pandemic 2009 H1N1are caused by influenza A virus. Virkon® S [OPT] [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu). [OPT]

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A viruse. [OPT]

This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1. (formerly called swine flu). [OPT]

Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu). [OPT]

Kills Pandemic 2009 H1N1 influenza A virus. [OPT]

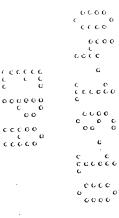


DIRECTIONS FOR USE

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

GENERAL INSTRUCTIONS—POULTRY AND FARM PREMISES

- 1. Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- 2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes.
- 6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- 7. Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.



Virkon® S DILUTION CHART

Fill container with desired amount of water and add Virkon® S powder or tablet(s) to achieve recommended solution concentration. [For a 1% solution, add one (1) tablet to one pint of water. OPT.] [For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water. OPT]

Powder

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Quart	0.15 ounces*	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces*	1.3 ounces	2.7 ounces
10 Gallons	6.7 ounces*	13.4 ounces	26.7 ounces
50 Gallons	33.4 ounces*	66.8 ounces	. 133.5 ounces

Measuring cup provided.

Tablet

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Pint		1 tablet	2 tablets
1 Quart	1 tablet*	2 tablets	4 tablets
1 Gallon	4 tablets*	8 tablets	16 tablets

Sachet

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 gallon	_	1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

^{*} The 0.5% solution currently is not approved for use in California.

Solutions are stable for 7 days. Do not soak metal objects in Virkon® S for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. [This powder formulation is easily diluted for use in manual or machine operations. OPT.]

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. *Not approved in California for use against the following organisms:* Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts – *Not Approved for this use in California*) Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

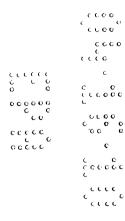
HATCHERIES: Virkon® S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes.

Virkon® S at 1-2% solution is recommended for use in fogging (wet misting) operations as a supplemental measure, either before or after regular cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon® S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon® S. After contact for 10 minutes, rinse with water. Do not house poultry or use equipment until treatment has dried.

FOR AIR SANITIZING: *Not approved for this use in California*: Use Virkon® S at 0.5-1% solution and fog until surfaces are moist. Allow at least 2 hours before entering treated area. Rinse foggers and sprayers with water following use.

PROCESSING PLANTS: Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings and floors.



SWINE PRODUCTION

CONTROLS: Bacteria of Actinobacillus Pleuropneumoniae and Clostridium perfringens. *Not approved in California for use against the following organisms:* Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Virkon® S at 1% solution is recommended for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments.

Virkon® S at 0.5-1% solution is recommended for use in fogging (wet misting) operations or as a supplemental measure either before or after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%*. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use.

EQUINE PRODUCTION

BROAD SPECTRUM EQUINE DISINFECTANT/DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES, EQUIPMENT AND AERIAL DISINFECTION

CONTROLS: Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% or Virkon® S solution. Rinse with clean water.

Blankets, Saddle Pads and Rugs: Not an approved use in California: Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue. Characteristic Characteristics Character

Master Label 40417

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4. Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. A 1% solution of Virkon[®] S is recommended to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments.

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. *Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATIONS: A 1% solution of Virkon® S is recommended as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages [caging systems] within [associated with] Veterinary Medical Hospitals, infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.

GREENHOUSES AND HORTICULTURE

Virkon® S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

For surfaces and equipment

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use a dilution of 1:100 or 1.3 oz. Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to removed organic deposits.

- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.
- 4) Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5) Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon® S per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.

For evaporative coolers: *Not approved use in California*: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon® S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon® S for every gallon of cooler water.

Virkon® S may also be used to disinfect irrigation tanks and lines. *Not approved use in California:* Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

Virkon® S at 0.5-1% solution is recommended for use in fogging (wet misting) operations or as a supplemental measure either before or after regular cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use.

AQUACULTURE

Not approved for this use in California

Virkon® S is intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon® S may also be used in foot dips. Virkon® S must not be applied directly to water of the control of the co

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon® S solution followed by a water rinse.

Virkon® S at 0.5-1% solution is recommended for use in fogging (wet misting) operations of ac a supplemental measure either before or after regular cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use.

EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)

Not approved for this use in California

CONTROLS: OIE List A Disease organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia). (OPT.)

A 1% solution of Virkon® S is recommended to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers).

Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISMS Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection, however, Virkon® S is effective against the following disease organisms at the dilution rates specified below. If the threat is known and limited to one of the organisms below, Virkon® S may be used at the following dilution rates:

Disease Organism	Dilution	Oz./Gal.
	Rate	0207 0 5468
PCV2 Virus (PMWS)	1:200	0.7
	c oce	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Master Label \(\square\)

USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

A 1% solution of Virkon® S is recommended to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon® S does <u>not</u> come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon® S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon® S to pool on surfaces that may be within reach of animals. Do not allow Virkon® S to come into direct contact with people. Allow Virkon® S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

STORAGE AND DISPOSAL

PESTICIDE STORAGE:

<u>For pails, [jugs], [bottles]</u>: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

<u>For [sachet] [pouch] [packet] [bag]</u>: Store in a cool dry place. Keep out of reach of children. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

[For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.]

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. [Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment.] Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment of a mix tank. 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 tinges. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfilly car, if allowed by state and local authorities, by burning. If burned, stay out of smoke.