

# Virkon® S

Disinfectant and Virucide



Chemours™

For use in cleaning and disinfecting industrial, animal and agricultural facilities

Powder Form

Effective against Viruses\*, Bacteria, and Fungi

#### ACTIVE INGREDIENTS

Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
OTHER INGREDIENTS	77.09%
Total	100.00%

Equivalent to 9.75% Available Chlorine

**NET CONTENTS: 10LB (4.53KG)**

#### 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 the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for 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 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.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

**DANGER / PELIGRO**

See Inside Booklet for Additional Precautions

DISINFECTANT



Department of Agriculture  
STATE OF HAWAII

**LICENSED**

PERIOD **2015-2017** LIC. NO.

**8357.7**

EPA REG NO 71654-6  
EPA EST. NO. 57787-MI-001



# Virkon® S

Disinfectant and Virucide

## 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 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."

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE: For pails, jugs, bottles:** Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

**PESTICIDE DISPOSAL:** Pesticide wastes may be 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 Representative at the nearest EPA Regional Office for guidance.

**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 or 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 times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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## Disinfectant and Virucide

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC PATHOGENS

### BACTERIA

*Actinobacillus pleuropneumoniae*  
*Bacillus cereus*  
*Bruceella 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*  
*Leptospira canicola*  
*Moraxella bovis (Pink Eye)*  
*Mycoplasma hyopneumonia*  
*Mycoplasma mycoides*  
*Pseudomonas mallei (Glanders)*  
*Pseudomonas vulgaris*  
*Streptococcus equi (Strangles)*  
*Taylorella equigenitalis*  
*Trponema 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*  
*Foot and Mouth Disease 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 Exanthema 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)*  
*Equine Contagious Abortion Virus*  
*Equine Papillomatosis Virus*  
*Equine Influenza Virus (The Cough)*  
*Feline Herpes Virus*  
*Feline Infectious Peritonitis Virus*  
*Feline Parvovirus*  
*Hog Cholera Virus*  
*Infectious Bronchitis Virus*  
*Infectious Bursal Disease Virus*  
*Infectious Canine Hepatitis Virus*  
*Infective Bovine Rhinotracheitis Virus (no hard water)*  
*Maedi-Visna Virus*  
*Marek's Disease Virus*  
*Mouse Parvovirus*  
*PCV2 Virus (PMWS)*

*Porcine Parvovirus*  
*Porcine Reproductive and Respiratory Syndrome Virus (PRRS)*  
*Pseudorabies Virus (Aujeszky's Disease) (no hard water)*  
*Rotaviral Diarrhea Virus*  
*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*

### FUNGI

*Trichophyton mentagrophytes (2%)*

Not approved in California for use against the following fungi:

*Aspergillus fumigatus*  
*Fusarium moniliforme*  
*Microsporium canis*  
*Mycoplasma hyopneumonia*  
*Trichophyton spp. (Ringworm)*  
*Trichophyton spp. (Mud Fever)*

# Virkon® S

## Disinfectant and Virucide

### VIRKON® S DISINFECTANT AND VIRUCIDE DILUTION CHART

Fill container with desired amount of water and add Virkon® S to achieve solution concentration.

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.

Measuring cup provided.

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

\* The 0.5% solution currently is not approved for use in California.

### 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 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.

This powder formulation is easily diluted for use in manual or machine operations.

### POULTRY 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. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

# Virkon® S

## Disinfectant and Virucide

### FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION

Follow General Instructions to remove poultry and/or animals from room to be treated.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft<sup>2</sup> of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

**Note:** Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

**BROILER/BREEDER HOUSES:** Follow General Instructions to remove poultry and pre-clean 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 potable water. Do not house poultry or use equipment until treatment has dried.

**PROCESSING PLANTS:** Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

### SWINE PRODUCTION

**CONTROLS:** Bacteria of *Actinobacillus Pleuropneumoniae* and *Clostridium perfringens*, Foot and Mouth Disease virus, Fungi of Trichophyton mentragrophytes (2%). *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* and Bacteria of *Treponema hyodysenteriae*.

Follow General Instructions to remove swine and pre-clean area to be treated. Use a 1% solution of Virkon® S 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.

Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

### FOGGING (WET MISTING) – SWINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure 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 potable water following use. Refer to Fogging (Wet Misting instructions).

### EQUINE PRODUCTION

#### BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

**CONTROLS:** Viruses of Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of *Brucella abortus*, *Clostridium perfringens*, *Dermatophilus congolensis* (at 2%), *Pseudomonas aeruginosa*, *Salmonella typhimurium* and *Staphylococcus aureus*. Fungi of Trichophyton mentragrophytes (at 2%).

# Virkon® S

## Disinfectant and Virucide

*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 Exanthema, 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 nonporous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

**USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms:** Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

**To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California:** Using a 1% solution of Virkon® S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

### BOVINE PRODUCTION

**CONTROLS:** Bovine Adenovirus Type 4, Foot and Mouth Disease Virus, and Fungi of Trichophyton mentragrophytes (2%). *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 and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon® S to clean and disinfect areas associated with bovine housing, stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

### FOGGING (WET MISTING) – BOVINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure 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 potable water following use. Refer to Fogging (Wet Misting instructions).

### COMPANION ANIMALS

**CONTROLS:** Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). *Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporium canis.

**APPLICATION:** Use a 1% solution of Virkon® S 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 or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

# Virkon® S

## Disinfectant and Virucide

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 intended to directly affect agricultural production and must 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 remove 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.

### FOGGING (WET MISTING) INSTRUCTIONS - GREENHOUSE/HORTICULTURE

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure 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 potable water following use. Refer to Fogging (Wet Misting instructions).

### EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)

Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus\*, Vesicular Stomatitis Virus\*, Classical Swine Fever Virus\*, (Hog Cholera Virus\*), African Swine Fever Virus\*, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus\*, and Mycoplasma mycoides\* (Contagious Bovine Pleuropneumonia\*).

\*Not approved for this use in California.

Use a 1% solution of Virkon® S 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.

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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, waterproof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

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

### **DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS\***

Not approved for this use in California. The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S is an effective disinfectant for all hard,

non-porous surfaces against the following organism 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:

Organism	Dilution Rate	Oz./Gal.
PCV2 Virus* (PMWS)	1:200	0.7

### **USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS**

Use a 1% solution of Virkon® S 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 not 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. This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus\*.

Manufactured for:  
**The Chemours Company FC, LLC**  
1007 Market Street  
Wilmington, DE 19898  
[www.chemours.com](http://www.chemours.com)

**Questions? Call 1-800-441-7515**  
**Outside the US, contact: 1-302-774-1000**

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RSL-31  
Rev. 20.02.15/K

# Virkon® S

Disinfectant and Virucide

ACTIVE INGREDIENTS	
Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
OTHER INGREDIENTS	77.09%
Total	100%
Equivalent to 9.75% Available Chlorine	



**NET CONTENTS:**  
**40 POUNDS (18.16 KGS.)**  
**[4 X 10 POUNDS]**



**LICENSED**

PERIOD **2015-2017** LIC. NO.

**8357.7**



## 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 the first 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.

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

**DANGER / PELIGRO**

See side panel for Precautionary Statements

EPA REG NO. 71654-6  
EPA EST. NO. 57787-MI-001

# Virkon® S

Disinfectant and Virucide



## 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 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.

Refer to accompanying labeling for additional precautions and complete directions for use.

**BATCH #:**

**PRODUCT CODE: D12349879**

Manufactured for:  
**The Chemours Company FC, LLC**  
1007 Market Street  
Wilmington, DE 19898  
[www.chemours.com](http://www.chemours.com)

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

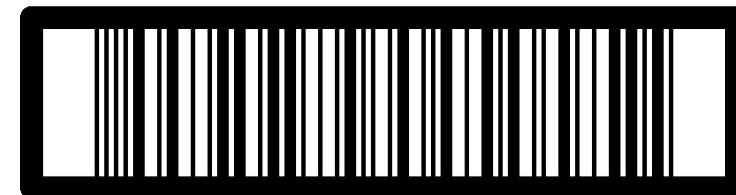
**For pails, jugs, bottles:** Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

### PESTICIDE DISPOSAL:

Pesticide wastes may be hazardous - refer to product label for pesticide disposal.

### CONTAINER DISPOSAL:

**Nonrefillable container. Do not reuse or refill this container** - refer to product label for container disposal.



4 40 83014 40290 3

**Questions? Call 1-800-441-7515**  
**Outside the US, contact: 1-302-774-1000**

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#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. See leaflet for additional directions for use and \* explanatory notes. Virkon® S. Fill container with desired amount of water and add Virkon® S Powder to achieve solution concentration. For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water. Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure for all hard, non-porous surfaces, equipment, instruments, utensils and cages associated with Veterinary Medical Hospitals, animal infectious disease wards, Humane Society facilities, laboratory animals quarters, grooming facilities, kennels and animal transportation vehicles. Solutions are stable for 7 days. Do not immerse metal objects in use-diluted solution for long periods - 10 minutes is the maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.

#### 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 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 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.

Call a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

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

# Virkon® S

## Disinfectant and Virucide

Effective against Viruses\*, Bacteria & Fungi

#### ACTIVE INGREDIENTS

Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
OTHER INGREDIENTS	77.09%
Total	100%

Equivalent to 9.75% Available Chlorine

KEEP OUT OF REACH OF CHILDREN  
**DANGER/PELIGRO**

See back panel for additional precautions



**LICENSED**

PERIOD 2015-2017 LIC. NO.

**8357.7**

**Net contents:  
1.3 oz. Powder Form**

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#### 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.**

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

#### PESTICIDE STORAGE:

**For sachet:** Store in a cool dry place. Keep out of reach of children. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

Manufactured by:  
The Chemours Company FC, LLC  
1007 Market Street, Wilmington, DE 19898  
Questions? Call 1-800-441-7515

**US Patent No. 4822512**  
**EPA Reg No. 71654-6**  
**EPA Est No. 62432-GBR-001**



A00962569/Virk/S/1.3sachet/Fed, USA/16.02.15/K

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. See leaflet for additional directions for use and \* explanatory notes. Virkon® S. Fill container with desired amount of water and add Virkon® S Powder to achieve solution concentration. For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water. Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure for all hard, non-porous surfaces, equipment, instruments, utensils and cages associated with Veterinary Medical Hospitals, animal infectious disease wards, Humane Society facilities, laboratory animals quarters, grooming facilities, kennels and animal transportation vehicles. Solutions are stable for 7 days. Do not immerse metal objects in use-diluted solution for long periods - 10 minutes is the maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.

### 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 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 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.

Call a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

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

# Virkon® S

## Disinfectant and Virucide

Effective against Viruses\*, Bacteria & Fungi

### ACTIVE INGREDIENTS

Potassium peroxymonosulfate 21.41%

Sodium chloride 1.50%

OTHER INGREDIENTS 77.09%

Total 100%

Equivalent to 9.75% Available Chlorine

KEEP OUT OF REACH OF CHILDREN  
**DANGER/PELIGRO**

See side panel for additional precautions



50 x 1.3oz  
individual sachets



Department of Agriculture  
STATE OF HAWAII

**LICENSED**



PERIOD 2015-2017 LIC. NO.

**8357.7**

## 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.**

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

### PESTICIDE STORAGE:

**For sachet:** Store in a cool dry place. Keep out of reach of children. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

Manufactured for:  
The Chemours Company FC, LLC  
1007 Market Street, Wilmington, DE 19898  
Questions? Call 1-800-441-7515

**US Patent No. 4822512**  
**EPA Reg No. 71654-6**  
**EPA Est No. 62432-GBR-001**

Net Weight: 4 lbs  
(50 x 1.3oz)

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A00966351/Virks/50x1.3sachet/USA/16.02.15/K

# Virkon® S

## Disinfectant and Virucide



LICENSED

PERIOD 2015-2017 LIC. NO.

8357.7



DISINFECTANT

Tablet format  
Effective against viruses, bacteria, fungi

#### ACTIVE INGREDIENTS

Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
OTHER INGREDIENTS	77.09%
Total	100.00%

Equivalent to 9.75% Available Chlorine

#### 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.

For 24-hour emergency information on this product, call 1-800-441-3637. 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.

**KEEP OUT OF REACH OF CHILDREN**

## DANGER / PELIGRO

See side/back panel for additional precautions and leaflet for additional directions for use

**Net contents: 9 oz**  
(50 X 0.18 oz tablets)

EPA Reg No. 71654-6  
EPA Est No. 62432-GBR-001

#### Directions for Use

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

**Virkon® S Dilution** Fill container with desired amount of water and add Virkon® S tablet to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water.

#### Poultry, Swine, Equine, Bovine production - Broad Spectrum Disinfectant

Companion animals Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure (remove gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all hard non-porous surfaces, equipment, instruments, utensils and cages. Refer to leaflet.

#### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE:

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

**PESTICIDE DISPOSAL:** Pesticide wastes may be hazardous - refer to product leaflet for pesticide disposal instructions.

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container** - refer to product leaflet for container disposal instructions.

#### 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.**

**Manufactured for: The Chemours Company FC, LLC**

1007 Market Street  
Wilmington, DE 19898  
Questions? Call 1-800-441-7515  
Outside the US, contact 1-302-774-1000



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# Virkon® S

Disinfectant and Virucide



LICENSED

PERIOD 2015-2017 LIC. NO.

8357.7

Tablet form

Effective against viruses, bacteria, fungi

ACTIVE INGREDIENTS

Potassium peroxymonosulfate 21.41%

Sodium chloride 1.50%

OTHER INGREDIENTS 77.09%

Total 100.00%

Equivalent to 9.75% Available Chlorine



## 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.

For 24-hour emergency information on this product, call 1-800-441-3637. 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.

KEEP OUT OF REACH OF CHILDREN

**DANGER | PELIGRO**

See leaflet for additional directions for use

**Net contents: 6.75 pounds**

(12- 9 oz. containers)

(12 X 50 x 0.18 oz tablets)

EPA Reg No. 71654-6

EPA Est No. 62432-GBR-001

## STORAGE AND DISPOSAL

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

## PESTICIDE STORAGE:

**For pails, jugs, bottles:** Store in a cool dry place in tightly closed container.

Keep out of reach of children. Always replace lid after use. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

**PESTICIDE DISPOSAL:** Pesticide wastes may be hazardous- refer to product leaflet for pesticide disposal instructions.

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container** - refer to product leaflet for container disposal instructions.

## 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.**

**Manufactured for: The Chemours Company FC, LLC**

1007 Market Street

Wilmington, DE 19898

Questions? Call 1-800-441-7515

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

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A00991010/VirkST/12x50x5g/Chemours, USA/29.12.14/K



# Virkon<sup>®</sup> S

Disinfectant and Virucide

Tablet and Powder Form

Effective against Viruses,\*  
Bacteria, Fungi

#### ACTIVE INGREDIENTS

Potassium peroxymonosulfate 21.41%

Sodium chloride 1.50%

OTHER INGREDIENTS 77.09%

Total 100.00%

Equivalent to 9.75% Available Chlorine

#### 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 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 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.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

DISINFECTANT

KEEP OUT OF REACH OF CHILDREN

**DANGER / PELIGRO**

See Inside Booklet For Additional Precautionary Statements



Chemours™

US PATENT NO. # 4,822,512  
EPA REGISTRATION NO. 71654-6

## 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".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus\*.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE: For pails, jugs, bottles:** Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain desiccant canister with product during storage. Do not mix this product with other chemicals.

**For sachet, pouch, packet, bag:** Store in a cool dry place. Keep out of reach of children. Retain desiccant 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.

**PESTICIDE DISPOSAL:** Pesticide wastes may be 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 Representative at the nearest EPA Regional Office for guidance.

**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 or 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 times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOO NOTIC PATHOGENS

### BACTERIA

*Actinobacillus pleuropneumoniae*  
*Bacillus cereus*  
*Brucella abortus*  
*Campylobacter jejuni*  
*Clostridium perfringens*  
*Dermatophilus congolensis*

*Escherichia coli*  
*Klebsiella pneumoniae*  
*Mycoplasma gallisepticum*  
*Mycoplasma hyopneumoniae*  
*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 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*  
*Foot and Mouth Disease 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 Exanthema 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)*  
*Equine Contagious Abortion Virus*  
*Equine Papillomatosis Virus*  
*Equine Influenza Virus (The Cough)*  
*Feline Herpes Virus*  
*Feline Infectious Peritonitis Virus*  
*Feline Parvovirus*  
*Hog Cholera Virus*  
*Infectious Bronchitis Virus*  
*Infectious Bursal Disease Virus*  
*Infectious Canine Hepatitis 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 (Aujeszky's Disease)*  
(no hard water)  
*Rotaviral Diarrhea Virus*  
*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*

#### **FUNGI**

*Trichophyton mentagrophytes (2%)*  
Not approved in California for use against the following fungi:  
*Aspergillus fumigatus*  
*Fusarium moniliforme*  
*Microsporium 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*

**VIRKON® S DILUTION CHART**

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

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 square feet.

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

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

\*The 0.5% solution is currently not approved for use in California.

**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, stall, 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 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.

**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 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. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

**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 potable water. Do not house poultry or use equipment until treatment has dried.

**PROCESSING PLANTS:** Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

## **SWINE PRODUCTION**

**CONTROLS:** Viruses of Foot and Mouth Disease. Bacteria of *Actinobacillus Pleuropneumoniae* and *Clostridium perfringens*; Fungi of *Trichophyton mentragophytes* (2%).

*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. Use a 1% solution of Virkon® S 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. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

## **EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT CONTROLS**

Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of: *Brucella abortus*, *Clostridium perfringens*, *Dermatophilus congolensis* (at 2%), *Pseudomonas aeruginosa*, *Salmonella typhimurium* and *Staphylococcus aureus*. Fungi of *Trichophyton mentragophytes* (at 2%). *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 Exanthema, 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 *Dermatophytosis* (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:** Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

**To Clean Blankets, Saddle Pads and Rugs:** *Not an approved use in California:* Using a 1% solution of Virkon® S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

## BOVINE PRODUCTION

**CONTROLS:** Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes (2%).

*Not approved in California for use against the following organisms:* Bacteria of Moraxella bovis; 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. Use a 1% solution of Virkon® S to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

## COMPANION ANIMALS

**CONTROLS:** Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%).

*Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

**APPLICATION:** Use a 1% solution of Virkon® S 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 or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. 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 intended to directly affect agricultural production and must 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 remove organic deposits.*
3. Apply solution with mop, sponge, or power sprayer 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 for 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 an 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.

## **AQUACULTURE**

*(Not approved for this use in California):* Virkon® S 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.

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.

## **EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)**

Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus<sup>†</sup>, Vesicular Stomatitis Virus<sup>†</sup>, Classical Swine Fever Virus<sup>†</sup> (Hog Cholera Virus<sup>†</sup>), African Swine Fever Virus<sup>†</sup>, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus<sup>†</sup>, and *Mycoplasma mycoides*<sup>†</sup> (Contagious Bovine Pleuropneumonia<sup>†</sup>).

<sup>†</sup>Not approved for this use in California.

Use a 1% solution of Virkon® S 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 harbouring 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, waterproof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

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

## **DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS\***

*(Not approved for this use in California):*

The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rate specified below. If the threat is known and limited to the organism below, Virkon® S may be used at the following dilution rate:

Organism	Dilution Rate	Oz./Gal.
PCV2 Virus* (PMWS)	1:200	0.7

## **USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS**

Use a 1% solution of Virkon® S 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 not 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.

Manufactured for:  
The Chemours Company FC, LLC  
1007 Market Street  
Wilmington, DE 19898

**Questions? Call 1-800-441-7515**  
**Outside the US, contact: 1-302-774-1000**

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