Virkon® S
DISINFECTANT AND VIRUCIDE*

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 INGREDIENTS: 100.00%

Equivalent to 9.75% Available Chlorine

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO
See inside booklet for Additional Precautions

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 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.

NET CONTENTS: 10LB (4.53KG)
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 Disinfectant and Virucide* 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 mycobacteria. 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

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.

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.
Virkon® S
DISINFECTANT AND VIRUCIDE

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 (Poli 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 hydysenteriae

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
(Rested with 1% soil load and 242 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)
Equine Contagious Arthritis
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
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)
Rotavirus 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
Microsporum canis
Mycoplasma hyopneumonia
Trichophyton spp. (Ringworm)
Trichophyton spp. (Mud Fever)
**Virkon®S**
DISINFECTANT AND VIRUCIDE*

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**Virkon®S DISINFECTANT AND VIRUCIDE* DILUTION CHART**

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

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. Measuring cup provided.

<table>
<thead>
<tr>
<th>Quantity of Water</th>
<th>0.5% Solution*</th>
<th>1% Solution</th>
<th>2% Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Quart</td>
<td>0.15 ounces*</td>
<td>0.3 ounces</td>
<td>0.7 ounces</td>
</tr>
<tr>
<td>1 Gallon</td>
<td>0.65 ounces*</td>
<td>1.3 ounces</td>
<td>2.7 ounces</td>
</tr>
<tr>
<td>10 Gallons</td>
<td>6.7 ounces*</td>
<td>13.4 ounces</td>
<td>26.7 ounces</td>
</tr>
<tr>
<td>50 Gallons</td>
<td>33.4 ounces*</td>
<td>66.8 ounces</td>
<td>133.5 ounces</td>
</tr>
</tbody>
</table>

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

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**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 feed 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.

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.
**Virkon®S**
**DISINFECTANT AND VIRUCIDE**

**HATCHERIES:** Virkon®S Disinfectant and Virucide* 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 Disinfectant and Virucide* 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 Disinfectant and Virucide* at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S Disinfectant and Virucide*. 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 Disinfectant and Virucide* 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 Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings and floors.

**SWINE PRODUCTION**
**CONTROLS:** Bacteria of Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentagrophytes (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. Virkon®S Disinfectant and Virucide* 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 Disinfectant and Virucide* 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:** 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 mentagrophytes (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 Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion,
**Virkon®S**

**DISINFECTANT AND VIRUCIDE**

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 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% Virkon®S Disinfectant and Virucide* 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.

**Aerial Spraying to control airborne diseases:** Not an approved use in California: Use a hand or knapsack sprayer with fine setting, or an automatic spraying system. Spray a 1% Virkon®S Disinfectant and Virucide* solution for 2-3 minutes twice daily, first thing in the morning and last thing at night. Rinse sprayers with water after use.

**BOVINE PRODUCTION**

**CONTROLS:** Bovine Adenovirus Type 4; Fungi of Trichophytosis; Trichomonas mentagrophytes (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, 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 Disinfectant and Virucide* 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. Fungi of Trichophyton mentagrophytes (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:** 1% solution of Virkon®S Disinfectant and Virucide* 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 or associated with Veterinary Medical Hospitals, infections 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 Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.
Virkon®S
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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).

A 1% solution of Virkon®S Disinfectant and
Virucide* 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 Disinfectant and Virucide* 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
Disinfectant and Virucide* 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 Disinfectant and Virucide* 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 Disinfectant and Virucide* may
be used at the following dilution rates:

<table>
<thead>
<tr>
<th>Disease Organism</th>
<th>Dilution Rate</th>
<th>Oz./Gal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCV2 Virus (PMWS)</td>
<td>1:200</td>
<td>0.7</td>
</tr>
</tbody>
</table>
USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

A 1% solution of Virkon®S Disinfectant and Virucide® 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 Disinfectant and Virucide® 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 Disinfectant and Virucide® 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 Disinfectant and Virucide® may only be applied using hand-held sprayers, sponges or other absorbent materials.

Do not allow Virkon®S Disinfectant and Virucide to pool on surfaces that may be within reach of animals. Do not allow Virkon®S Disinfectant and Virucide® to come into direct contact with people. Allow Virkon®S Disinfectant and Virucide® 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.
Directions for Use
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
Virkon® Solution Fill container with desired amount of water and add Virkon® S tablet to achieve recommended solution concentration. For a 1% solution, add one (1) tablet to one pint of water. Poultry, Swine, Equine, Beehive products - Broad Spectrum Disinfectant. Refer to Technical Data Sheet. Companion animals: A 1% solution of Virkon® S is recommended as a ‘one step’ cleaning and disinfecting procedure (remove gross film and heavy soil deposits before application of the disinfecting solution) for all non-porous surfaces, equipment, instruments, vehicles and cages within Veterinary Medical Hospitals, Infectious disease wards, quarantine areas, humane society facilities, laboratory animals 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 the maximum necessary contact time. One gallon of solution is sufficient to treat 125 square feet.

Storage and Disposal
Storage: Place tablets in tin or plastic container. Keep out of reach of children. Always replace lid after use. Rinse exterior container with product during storage.
Disposal: Nonhazardous container. Do not re-use or refill this container – refer to product insert 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, 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 in use-diluted solution.

Tablet Form
Efficacious against viruses, bacteria, fungi

Active Ingredients:
Potassium peroxymonosulfate 21.41%
Sodium citrate 1.36%
Other Ingredients 77.23%
Total 100.00%
Equivalent to 2% Available Chlorine

First Aid
Have this product container or label with you when calling a poison control center or physician for treatment information.
To in eyes: Hold eye open and rinse slowly and gently with water for 15 to 30 minutes. Remove contact lenses, if present and easy to remove. Continue rinsing eye. Call a poison control center or physician for further treatment advice.
To in skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 30 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. Note to physician: Prolonged exposure may cause respiratory damage. Contact the physician immediately.

See back panel for additional precautions and labeling for additional divisions, hazards, NIT CONTENTS: 8 oz (228.5g/0.182 oz TABLETS) EPA Reg No. 71554-5 EPA Est No. 02447-4N-488
Virkon®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 INGREDIENTS . . . . . . . . . . . 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.

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 Precautionary Statements

US PATENT NO. # 4,822,512
EPA REGISTRATION NO. 71554-6
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 hardwater,” “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

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 dessicant 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 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 or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinseate into application equipment or a mix tank or store rinseate 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 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 choleraesuis
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 hyopneumoniae
Mycoplasma mycoides
Pseudomonas mallei (Glanders)
Pseudomonas vulgaris
Streptococcus equi (Strangles)
Taylorella equigenitalis
Treponema hydysenteriae

**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)
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
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
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
Microsporum canis
Trichophyton spp. (Ringworm)
Trichophyton spp. (Mud Fever)
PLANT PATHOGENS
Not approved in California for use against plant pathogens:
Alternaria solani
Botrytis cinerea
Colletotrichum coccodes
Didymella bryoniae
Fusarium oxysporum
Fusarium solani
Penicillium oxalicum
Phomopsis sclerothioides
Pyrenochaeta lycoopersici
Pythium aphanidermatum
Rhizoctonia solani
Sclerotinia sclerotiorum
Thielaviopsis basicola
Verticillium dahliae
Xanthomonas axonopodis

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. Satirate surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. Immers 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 tablet or powder formula is easily diluted for use in manual or machine operations.

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), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

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 or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal Virkon®S for long periods – 10 minutes is objects in the maximum necessary contact time. One gallon of solution is sufficient to treat 135 square feet.

<table>
<thead>
<tr>
<th>Quantity of Water</th>
<th>0.5% Solution*</th>
<th>1% Solution</th>
<th>2% Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gallon</td>
<td>1 Sachet</td>
<td>2 Sachets</td>
<td></td>
</tr>
<tr>
<td>2 Gallons</td>
<td>1 Sachet</td>
<td>2 Sachets</td>
<td>4 Sachets</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity of Water</th>
<th>0.5% Solution*</th>
<th>1% Solution</th>
<th>2% Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pint</td>
<td>1 Tablet</td>
<td>2 Tablets</td>
<td></td>
</tr>
<tr>
<td>1 Gallon</td>
<td>4 Tablets</td>
<td>8 Tablets</td>
<td>16 Tablets</td>
</tr>
</tbody>
</table>

*The 0.5% solution is currently not approved for use in California.
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 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 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, Rotavirus Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, Foot and Mouth Disease and Bacteria of Treponema hydysenteriae.

Follow General Instructions to remove swine and pre-clean area to be treated. Virkon®S Disinfectant and Virucide 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 Disinfectant and Virucide 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 Exanthema, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomavirus, 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 meliae (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, caters, 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% Virkon®S Disinfectant and Virucide 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.

Aerial Spraying to control airborne diseases: Not an approved use in California: Use a hand or knapsack sprayer with fine setting, or an automatic spraying system. Spray a 1% Virkon®S Disinfectant and Virucide solution for 2-3 minutes twice daily, first thing in the morning and last thing at night. Rinse sprayers with water after use.
BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; 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. A 1% solution of Virkon® S Disinfectant and Virucide 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.

APPLICATION: 1% solution of Virkon® S Disinfectant and Virucide 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 or 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 Disinfectant and Virucide 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 duster 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 solution 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.

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 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.

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 the manufacturer’s use directions. Rinse foggers and sprayers with water following use.

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

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

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).

A 1% solution of Virkon®S is recommended to clean and disinfect agricultural facilities and equipment, military facilities and 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, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments.

Do not immerse meal 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:

<table>
<thead>
<tr>
<th>Disease organism</th>
<th>Dilution rate</th>
<th>Oz./Gal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCV2 Virus (PMWS)</td>
<td>1:200</td>
<td>0.7</td>
</tr>
</tbody>
</table>

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

A 1% solution 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 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:
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DuPont Animal Health Solutions
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Wilmington, DE 19880-0023 USA
www.ahs.dupont.com

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

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