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**VIRKON-S®**  
**BROAD SPECTRUM DISINFECTANT**

For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities

**ACTIVE INGREDIENTS:**

Potassium peroxymonosulfate.....	20.4%
Sodium Chloride.....	1.5%
INERT INGREDIENTS.....	<u>77.1%</u>
TOTAL.....	100.00%

Equivalent to 9.75% Available Chlorine

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See Back [Side] Panel[s] for Additional Precautions

\_\_\_ lbs. (\_\_\_) Net Weight

EPA Reg. No. 62432-1

EPA Est. No. 62432-EN-001

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VIRKON S is a registered trademark of and manufactured by Antec International Limited  
US Patent No. 4822512

**ACCEPTED**

APR 26 2001

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 62432-1

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# **EFFECTIVE AGAINST:**

## **EQUINE BACTERIA**

Clostridium perfringens  
Fistulous withera (Poll Evil)  
Taylorella equigenitalis  
Streptococcus equi (Strangles)  
Pseudomonas mallei  
(Glanders)  
Bordetella bronchiseptica

## **EQUINE VIRUSES**

African Horse Sickness  
African Viral Arteritis  
(Pink Eye)  
Coital Exanthema  
Myeloencephalopathy  
Rhinopneumonitis  
Equine Infectious Anemia  
(Swamp Fever)  
Equine papillomatosis  
Equine Contagious Abortion  
Adenovirus Pneumonia  
Equine Influenza (The Cough)

## **EQUINE FUNGI**

Trichophyton spp. (Ringworm)  
Trichophyton spp.  
(Mud Fever)  
Fusarium moniliforme

## **BOVINE BACTERIA**

Moraxella bovis  
Mycobacterium bovis  
Haemophilus somnus

## **BOVINE VIRUSES**

Calf rotavirus  
Infective Bovine  
Rhinotracheitis  
Bovine Adenovirus Type 4  
Pseudorabies  
Foot & Mouth Disease

## **BOVINE FUNGI**

Fusarium moniliforme

## **POULTRY BACTERIA**

Streptococcus pyogenes  
Campylobacter pyloridis  
Klebsiella pneumoniae  
Escherichia coli  
Salmonella typhimurium  
Salmonella choleraesuis  
Pseudomonas aeruginosa  
Staphylococcus aureus  
Staphylococcus epidermidis  
Mycoplasma gallisepticum  
Clostridium perfringens  
Bordetella avium

## **POULTRY VIRUSES**

Newcastle Disease  
Infectious Bronchitis  
Infectious Bursal Disease  
Avian Laryngotracheitis  
Avian Influenza  
Marek's Disease  
Egg Drop Syndrome  
Adenovirus  
Turkey Herpes Virus  
Duck Herpes Virus  
Duck Viral Enteritis

## **POULTRY FUNGI**

Aspergillus flavus  
Aspergillus fumigatus  
Candida albicans

## **SWINE BACTERIA**

Bordetella bronchiseptica  
Pasteurella multocida  
Actinobacillus  
pleuropneumonia  
Treponema hyodysenteria  
Clostridium perfringens

## **SWINE VIRUSES**

Hog Cholera  
Swine Influenza  
Porcine parvovirus  
Rotaviral diarrhea  
Vesicular stomatitis  
Pseudorabies  
Porcine Reproductive and  
Respiratory Syndrome  
(PRRS)  
African Swine Fever  
Foot and Mouth Disease

## **SWINE FUNGI**

Fusarium moniliforme

## **COMPANION ANIMALS**

### **BACTERIA**

Streptococcus aureus  
Streptococcus pyogenes  
Klebsiella pneumoniae  
Pseudomonas aeruginosa

### **VIRUSES**

Canine Parvovirus  
Distemper  
Leptospira canicola  
Feline parvovirus  
Feline herpes  
Feline calicivirus

### **FUNGI**

Microsporium canis

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**

Powder is corrosive. Causes skin burns and irreversible eye damage. Harmful if swallowed, absorbed through skin, or inhaled. Do not get in eyes, on skin, or on clothing. Wear protective clothing and rubber gloves. Avoid breathing dust. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Corrosive statement refers to powder only not in use solution.

**FIRST AID**

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get prompt medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF INHALED:** If symptoms of coughing, choking, or wheezing are troublesome, remove to fresh air and seek medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of water. Avoid alcohol. Get immediate medical attention.

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

**BROAD SPECTRUM DISINFECTANT**

VIRKON-S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts), and mycoplasma. Efficacy was determined in the presence of hard water and organic material. *VIRKON-S passes the AOAC germicidal and detergent sanitizer test at a concentration of 0.5% (1:200) in the presence of 200 ppm hard water.*

**DIRECTIONS FOR USE**

Federal law prohibits use of this product in a manner inconsistent with its labeling

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

**VIRKON-S DILUTION CHART**

*Fill container with desired amount of water and add VIRKON-S powder to achieve recommended solution concentration.*

<i>Quantity of Water</i>	<i>Amount of Powder for 1% Solution</i>	<i>Amount of Powder for 2% Solution</i>
<i>1 Quart</i>	<i>0.3 ounces</i>	<i>0.7 ounces</i>
<i>1 Gallon</i>	<i>1.3 ounces</i>	<i>2.7 ounces</i>
<i>10 Gallons</i>	<i>13.4 ounces</i>	<i>26.7 ounces</i>
<i>50 Gallons</i>	<i>66.8 ounces</i>	<i>133.5 ounces</i>

*1.3 oz. measuring scoop is provided.*

**Add [1.3 oz. (1 scoop) of VIRKON-S] [the contents of one VIRKON-S packet] to one gallon of warm water. Solutions are stable for 7 days. Do not soak metal objects for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.**

### POULTRY [AND RATITE PRODUCTION]

**CONTROLS:** Viruses of Newcastle Disease, Infectious Bronchitis, Infectious Bursal Disease, Avian Laryngotracheitis, Marek's Disease, Egg Drop Syndrome, Avian Influenza, Turkey Herpes Virus and Duck Viral Enteritis. Fungi (molds and yeasts - *Aspergillus flavus*, *Aspergillus fumigatus* and *Candida albicans*. Bacteria - *Streptococcus pyogenes*, *Campylobacter pyloridis*, *Klebsiella pneumoniae*, *Escherichia coli*, *Salmonella typhimurium*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Bordetella avium* and *Mycoplasma gallisepticum*.

**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 (use 2% solution for *Mycoplasma*, *Aspergillus flavus* and *Aspergillus fumigatus*). 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:** *Remove chickens [birds], feed, and water troughs, then remove manure and litter. Spray floors and walls with VIRKON-S at 1% solution.* Thoroughly wash waterers and feeders with a 1% solution of VIRKON-S (use 2% solution for *Mycoplasma*, *Aspergillus flavus* and *Aspergillus fumigatus*). *After contact for 10 minutes, rinse with water. Do not house poultry or use equipment until treatment has dried.*

**FOR AIR SANITIZING:** Use VIRKON-S at 1-2% 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:** Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Pseudorabies, Porcine Reproductive and Respiratory Syndrome (PRRS), Rotoviral Diarrhea, African Swine Fever and Foot and Mouth Disease. Bacteria of *Pleuropneumonia*, *Treponema hyodysenteriae*, and *Clostridium perfringens*. Fungi: *Fusarium moniliforme*.

**VIRKON-S at 1% solution** is recommended for *cleaning and disinfecting* farrowing units, nurseries, finisher houses, processing plants (use a 2% solution for *Mycoplasma*, *Aspergillus flavus*

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and *Aspergillus fumigatus*), and agricultural production equipment such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments.

VIRKON-S at 1-2% 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 manufacture'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 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. Bacterial: Clostridial Diarrhea, Fistulous Withers (Poll Evil), *Taylorella equigenitalis*, *Bordetella bronchiseptica*, *Streptococcus equi* (Strangles) and *Pseudomonas mallei* (Glanders). Fungi: Dermatophytosis (Ringworm), Dermatophylosis (Mud Fever), and *Fusarium moniliforme*.

APPLICATIONS: For cleaning and *disinfecting* all 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 solution. Rinse with clean water.

Blankets, [Saddle Pads] [and] Rugs: 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: *Use a hand [or knapsack] sprayer with fine setting*, or an *automatic* spraying system. Spray a 1% *VIRKON-S* 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: Viruses of Calf rotavirus, *Infectious Bovine Rhinotracheitis*, Bovine Adenovirus Type 4 and Pseudorabies and Foot and Mouth Disease; Bacteria of *Maraxella bovis*, *Haemophilus somnus* and *Mycobacterium bovis*; Fungi of *Fusarium moniliforme*.

A 1% solution of VIRKON-S is recommended to *clean and disinfect* areas associated with bovine housing [stabling], hospital [quarantine] pens, feedlot facilities, and agricultural production

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equipment such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments.

### COMPANION ANIMALS

**CONTROLS:** Viruses Canine Parvovirus, Distemper, Leptospira canicola, Feline parvovirus, Feline herpes and Feline calicivirus. Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa; Fungi of Microsporum canis.

**[APPLICATIONS:]** A 1% solution of VIRKON-S is recommended as a "one step" cleaning and *disinfecting* procedure for all surfaces, equipment, instruments, utensils and *cages* [caging systems] within [associated with] [Veterinary Medical Hospitals,] [infectious disease wards,] [quarantine areas,] [Humane Society facilities,] [laboratory animal quarters,] grooming and boarding facilities, kennels, catteries and animal transportation vehicles.

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

### STORAGE AND DISPOSAL

**STORAGE:** Store in a cool, dry place in tightly closed container away from children. Always replace lid after use.

**DISPOSAL:** Wash empty container thoroughly and dispose in trash. Do not mix this product with other chemicals