

# Virkon®S

## Application & Use Guidance.



EXCLUSIVE NEW ZEALAND  
DISTRIBUTOR OF VIRKON®S

### NO NEED FOR ROTATION.

Independent studies have demonstrated that Virkon®S is less likely to lead to the development of acquired resistance when compared with certain other disinfectant chemistries, consequently removing the need for disinfectant rotation.

### SUPERIOR OPERATOR SAFETY.

Extensive investment has been made assessing the safety of Virkon®S to users. The assessment demonstrates that Virkon®S is not corrosive to skin and does not cause sensitisation. A typical in-use dilution of 1:100 (1%) has been shown to be non-irritating to skin and eyes and is not a sensitising agent.

### EASY TO TRANSPORT AND STORE.

Virkon®S can be transported conveniently and rapidly by rail, sea and air as it is not classified as 'Dangerous for Transport', reducing the cost of shipment and negating the requirement to operate staff qualified in the shipment of dangerous goods. Due to the complexities and restrictions surrounding shipment of dangerous goods, shipment times can be prolonged. The powder formulation of Virkon®S simplifies storage and because the powder is so stable it can be stored for long periods, making it ideal for stockpiling in bulk.

To Protect

## SURFACE DISINFECTION

Surface Disinfection	Dilution Rate	Application
Routine disinfection for all surfaces, earth, wood and concrete	1:100 (10 grams of Virkon®S to every 1 litre of water)	Using a pressure washer or other mechanical sprayer, apply Virkon®S solution at an application rate of 300ml/m <sup>2</sup> .

## SURFACE APPLICATION USAGE CHART

To estimate the total surface area to be disinfected, including walls and ceilings, multiply the total floor area by 2.5\*

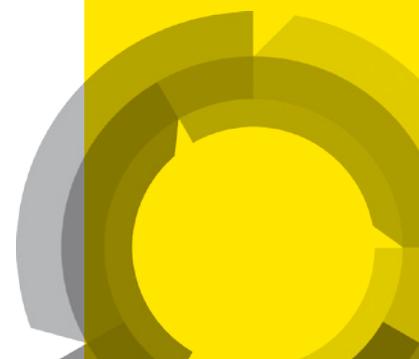
Surface area to be disinfected	Volume of water required	Dilution Rate		
		1:100 (1%) Routine Disinfection	1:200 (0.5%)	1:280 - UK DEFRA Diseases of Poultry Orders
		Quantity of Virkon®S to be added		
50m <sup>2</sup>	15 litres	150g	75g	54g
100m <sup>2</sup>	30 litres	300g	150g	107g
500m <sup>2</sup>	150 litres	1.5kg	750g	536g
1000m <sup>2</sup>	300 litres	3kg	1.5kg	1.071kg
2500m <sup>2</sup>	750 litres	7.5kg	3.75kg	2.68kg

1. Decide on the volume of disinfectant solution required at the appropriate dilution rate.
2. Measure out the appropriate quantity of Virkon®S powder to achieve the desired dilution rate.
3. Add the Virkon®S powder to the water and stir thoroughly to dissolve.
4. Using a pressure washer or other mechanical sprayer, apply Virkon®S solution at an application rate of 300ml/m<sup>2</sup>.

## EQUIPMENT DISINFECTION

Equipment Disinfection	Dilution Rate	Application
Routine cleaning and disinfection of movable equipment	1:100 (10 grams of Virkon®S to every 1 litre of water)	Using a brush or pressure washer, wash all equipment in Virkon®S solution until visibly clean.

**Virkon®**  
the science to  
kill pathogens



## DISINFECTANT FOOTDIPS PREPARATION AND USE

Disinfection	Dilution Rate	Application
Routine disinfection of footwear	1:100 (10 grams of Virkon®S to every 1 litre of water)	Replace solution once it has either become soiled or after a period of 4-5 days.

## WATER SYSTEM DISINFECTANT

**Terminal and Continuous Disinfection.** All water systems can potentially contain some viral and bacterial contamination, especially header tanks where dust and debris can accumulate. Disinfection will clean the system and eliminate viruses, bacteria and fungal growth.

Water System Disinfection	Dilution Rate	Application
Terminal disinfection	1:200 to 1:100	Isolate header tank at the mains and drain off to drinker points farthest from tank. Clean out any gross soiling and debris. Refill with water and add the appropriate volume of Virkon®S powder, thoroughly stir and leave for 10 minutes. Flush system through to all drain-off points and leave for a further 50 minutes before draining system and refilling with clean water.
Continuous disinfection	1:1000	Dose header tank as required or apply through water system dosing equipment.

## VIRKON®S WATER DISINFECTION USAGE TABLE

Litres of water to be disinfected	Dilution Rate		
	Terminal 1:200	Cleanout 1:100	Continuous Water Disinfection 1:1000
	Quantity of Virkon®S to be added		
100 litres	500g	1kg	100g
250 litres	1.25kg	2.5kg	250g
500 litres	2.5kg	5kg	500g
1000 litres	5kg	10kg	1kg

## AERIAL DISINFECTION

**Misting/Aerial Spraying, Cold and Thermal Fogging.** To control organisms that can be introduced into a building during the setting up procedure, and to disinfect inaccessible areas of the building and the air, use either a fine mist sprayer or thermal fogging machine to apply Virkon®S disinfectant solution evenly.

Equipment Disinfection	Dilution Rate	Application
Misting / Aerial Spray	1:200	Using either a pressure washer or knapsack sprayer on its finest mist setting, apply 1 litre of Virkon®S solution per 10m <sup>2</sup> of floor space.
Cold Fogging	1:100	Use a mechanical mister to apply the Virkon®S solution at a rate of 1 litre per 10m <sup>2</sup> of floor space.
Thermal Fogging	1:25*	*4% solution of Virkon®S in an 85:15 water Virkon®S Fog Enhancer mixture. Using a thermal fogging machine, apply the prepared solution at 1 litre per 40m <sup>2</sup> of floor space.

## AERIAL DISINFECTION IN THE PRESENCE OF LIVESTOCK

- Virkon®S can be misted in the presence of livestock or poultry at a dilution rate of 1:200 (0.5%).
- A cold fogger or mister should be used.
- Always read the Virkon®S label to ensure regulatory compliance.

**USE DISINFECTANTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.**

VIRKON® IS A REGISTERED TRADEMARK OF E.I. DU PONT DE NEMOURS AND COMPANY OR ITS AFFILIATES. ALL RIGHTS RESERVED.

**NRM**

EXCLUSIVE NEW ZEALAND  
DISTRIBUTOR OF VIRKON®S

To Protect

**Virkon®**  
the science to  
kill pathogens

NRM | To Protect

0800 800 380

www.nrm.co.nz