

# Virkon® S

Versatile disinfectant, effective and fast acting against viruses, bacteria and yeasts



**LANXESS**  
BIOSECURITY  
SOLUTIONS



## Virkon® S to Assist Foot and Mouth Disease Outbreak Prevention and Control

Foot and mouth disease (FMD) is a severe, highly contagious viral disease affecting livestock animals including cattle, sheep, goats, pigs and other cloven-hoofed animals. It is one of the most challenging diseases in the livestock industry to control. The disease causes major economical loss due to its impact on the production performance and international trade. FMD poses no risk to human health or food safety.

The agent responsible for FMD is a virus from the Picornaviridae family, Aphthovirus genus. The virus has the following characteristics:

- Non-enveloped virus
- Sensitive to pH < 6.0 and > 9.0
- Resilient, persisting in cool, moist environments and on contaminated materials, further contributing to its ability to spread widely

FMD virus can be spread through various routes:

- Direct contact with infected animals via body fluids such as saliva, milk and respiratory secretions
- Ingestion of infected animal products e.g. feeding untreated milk to young animals
- Mechanical transmission through objects such as footwear, clothing, tools and vehicles
- Wind, although not as common but is possible

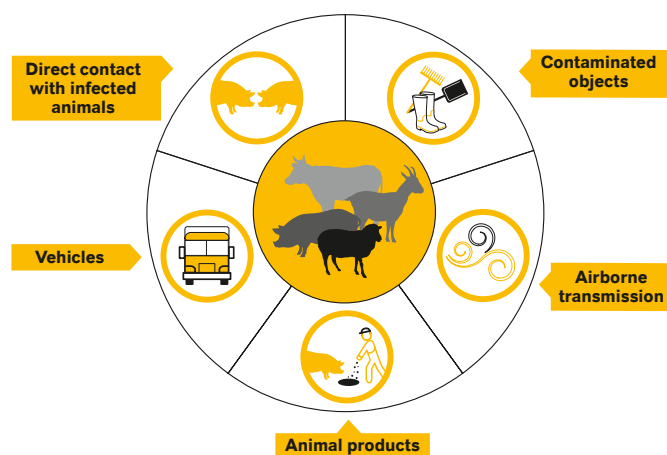


Fig.1 How FMD virus is transmitted

**Cleaning and disinfection is emphasised as one of the key biosecurity measures to help prevent and control FMD outbreaks.**

### Independently proven efficacy

LANXESS is committed to evolving chemistry, safety, and stewardship within all areas of animal health hygiene, and has invested heavily in the performance and safety characteristics of Virkon® S.

Virkon® S has a significant range of disinfection efficacy data against a wide range of diseases in animals including FMD virus, as well as safety, toxicological and material compatibility. Virkon® S is effective at both low and high temperatures.

### Virkon® S efficacy data against FMD virus

Method	Dilution	Contact time	Temperature
The Pirbright institute	<b>0.5%</b> (1:200)	30 sec	4 °C
UK DEFRA	<b>0.08%</b> (1:1300)	30 min	4 °C

**It is highly recommended that Virkon® S is used at a dilution of 1% (1:100) for preventative and continuous biosecurity measures to rapidly provide high levels of efficacy in the emergency disease control.**



## Steps to effective cleaning & disinfection



**1. Clean:** regularly scrape, scrub and sweep all surfaces such as stables, feed & water troughs and other equipment to remove organic matter.



**2. Wash:** soak surfaces thoroughly with water and detergent then rinse with clean water by spraying, wiping or scrubbing. Using a high-pressure washer can also be an effective solution.



**3. Disinfect:** apply Virkon® S at a dilution of 1% (1:100) to disinfect the surface.

## Virkon® S KEY FEATURES

- Kills a wide range of viruses including FMD virus, bacteria, and yeasts
- Ideal for disinfecting hard surfaces, tools and equipment, including floors, walls, feed and water troughs, vehicles and footwear.
- Outstanding user safety profile, a typical in-use dilution of 1% has been shown to be non-irritating to skin and eyes, and is not a sensitising agent.
- Easy to prepare and use

## Application & Use Guidance

Disinfection Task	Dilution Rate	Application
Routine disinfection of pre-cleaned hard surfaces and equipment	<b>1.0%</b> (1:100)	Using a pressure washer or other mechanical sprayer on a low pressure setting, apply to surfaces at a rate of 300 ml/m <sup>2</sup> or to point of "run-off".
Boot dip	<b>1.0%</b> (1:100)	Remove organic matter from boots and soles with a stiff brush. Step into the solution, covering the foot of the boot. Solutions should be replaced after a period of 5 days or when visibly soiled.
Vehicle spray	<b>0.5% - 1.0%</b> (1:200 - 1:100)	Using a pressure washer on a low pressure setting, start at the top working down, and apply to surfaces solution to the point of "run-off". Leave to dry.
Spraying in the presence of animals	<b>0.5%</b> (1:200)	Apply as a fine mist (35-80µ) into the air space immediately above livestock, up to a height of 2 metres, using a knapsack sprayer or other suitable misting equipment. Apply at a rate of 20 ml/m <sup>3</sup> of air space, or 50 ml/m <sup>2</sup> of floor space.

### NB:

- 1) Virkon® S is UK DEFRA approved at the dilution rates of 1:1300 for Foot and Mouth disease Orders and 1:80 for General Orders (GO). For UK DEFRA applications, follow the UK DEFRA approved application rates and use a minimum contact time of 30 minutes.
- 2) Virkon® S is German Veterinary Association (DVG) approved for use in animal husbandry at the dilution rate of 1% for the disinfection of non-enveloped viruses at 10 °C, 120 minutes contact time and 1.5% for 60 minutes contact time. For DVG applications, follow the DVG approved application rates and contact time, and apply at a rate of 400 ml/m<sup>2</sup>.



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**Use biocides safely. Always read the label and product information before use.  
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