

Equine Biosecurity Cleaning and Disinfection Products

DeterKlyn®

General Multipurpose Foaming Alkaline Cleaner

Cost effective alkaline multipurpose foaming detergent

DeterKlyn® is formulated as a general multi-purpose detergent for day-to-day use to clean farm equipment and hard surfaces including metal, wood, plastic and concrete. Its excellent cleaning action penetrates and lifts stubborn, caked-on faecal matter and organic soiling from surfaces and equipment.

Product presentations: 5 and 20 litres



Virkon® S

Versatile Disinfectant, Highly Effective and Fast Acting Against Equine Pathogens



Independently proven efficacy

Choice of disinfectant is vital for effective disinfection. 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 disease-causing organisms in animals including pathogens causing major threats in equine such as Strangles, Equine Herpesvirus, and Equine Influenza. With its excellent environmental profile, ease of application, and proven safety for animals and users, Virkon® S is ideal for routine disinfection of equipment, stables, and transport vehicles – helping protect horse health and performance through responsible biosecurity measures.

Product presentations: 50 x 5g tablets and 50g sachets, 1kg, 5kg, 10kg

Virkon® S Efficacy Data Against Key Equine Pathogens

| Disease | Pathogen | Dilution | Contact time |
|------------------------------|--------------------------------------|----------|--------------|
| Strangles | <i>Streptococcus equi</i> | 0.25% | 5 min |
| Equine influenza | Equine influenza virus (EIV) | 1% | 10 min |
| Equine rotavirus | Rotaviral diarrhea | 1% | 10 min |
| Equine viral arteritis (EVA) | Equine arteritis virus | 1% | 10 min |
| Equine herpesvirus | Equine herpes virus type 1 (EHV – 1) | 1% | 10 min |
| Equine coital exanthema | Equine herpes virus type 3 (EHV – 3) | 1% | 10 min |
| Salmonellosis | <i>Salmonella</i> Typhimurium | 1% | 5 min |
| Ringworm | <i>Trichophyton mentagrophytes</i> | 2% | 10 min |

DeterKlyn® Application & Use Guidance

| Cleaning Task | Dilution Rate | Application |
|---|----------------------|---|
| Routine cleaning of hard surfaces and equipment | 1-2% (1:100-1:50) | Using a pressure washer or other mechanical sprayer on a low-pressure setting, apply to surfaces at a rate of 300 ml/m ² or to point of "run-off". |

Virkon® S Application & Use Guidance

| Disinfection Task | Dilution Rate | Application |
|---|---|--|
| Pre-cleaned hard surfaces and equipment | 1% (100g of Virkon® S powder to 10L water or 1 of 5g tablet to 500 ml water) | Using a pressure washer or other mechanical sprayer on a low-pressure setting, apply to surfaces at a rate of 300 ml/m ² or to point of "run-off". |
| Boot dip | | 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. Keep the boot dip container away for rain and direct sunlight. |
| Vehicle spray | | 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. |

Virkon® S 1% Solution by Pack Size

| Pack Size | Makes Virkon® S 1% Solution |
|-----------------|-----------------------------|
| 50 x 5g tablets | 25 litres |
| 50g sachet | 5 litres |
| 1kg | 100 litres |
| 5kg | 500 litres |
| 10kg | 1000 litres |

NB:

- 1) Virkon® S is UK DEFRA approved for General Orders (GO) at the dilution rates of 1:75 (1.34%) and Virkon® S Tablets for 1:70 (1.43%). For UK DEFRA applications, follow the UK DEFRA approved application rates and use a minimum contact time of 30 minutes.
- 2) Always use PPE when handling and applying chemical concentrates and in-use solutions. Please check the product Technical Data Sheet (TDS) or Safety Data Sheet (SDS) for more information on PPE.



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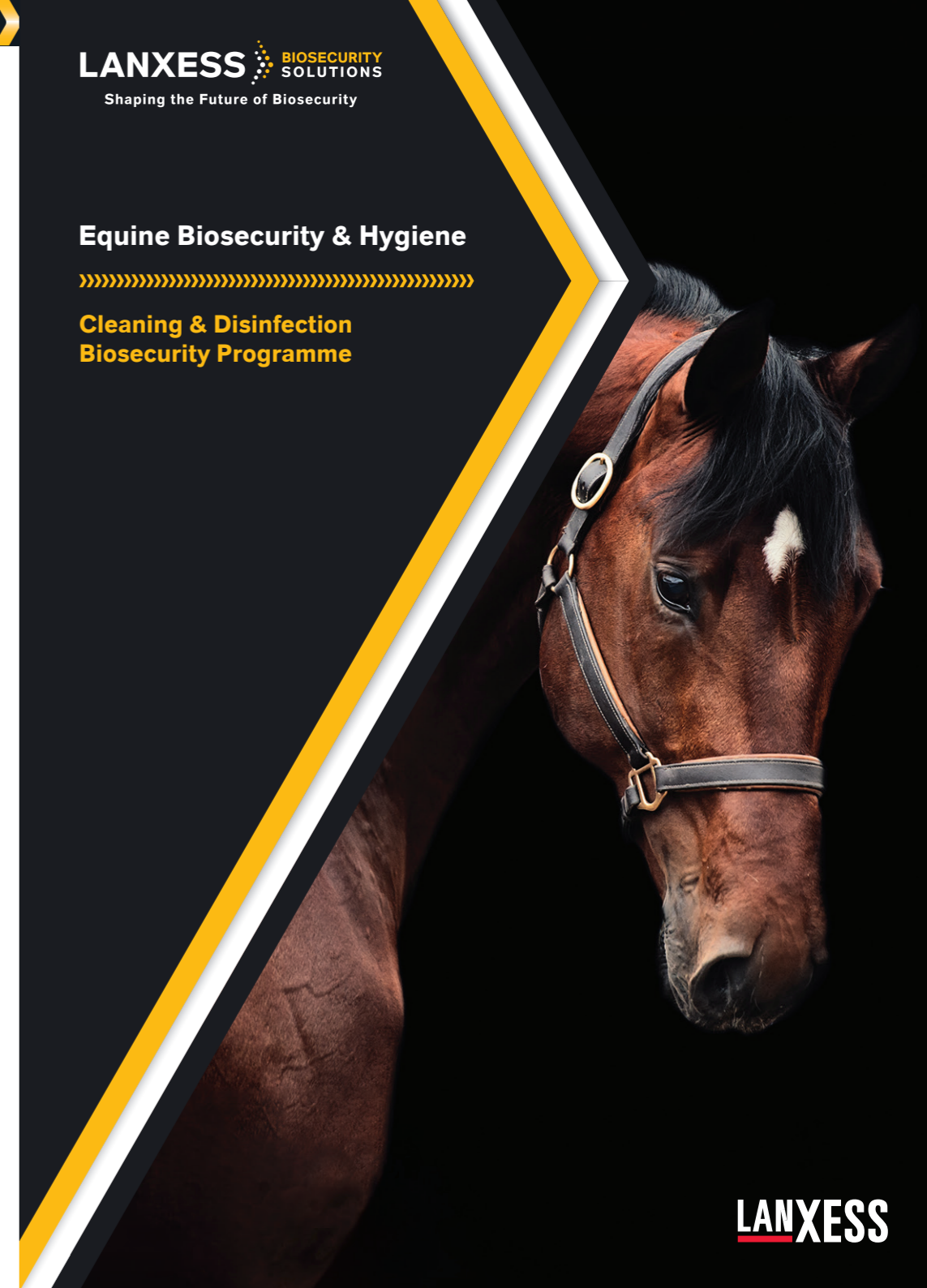
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Equine Biosecurity & Hygiene

Cleaning & Disinfection Biosecurity Programme



Ensuring good stable hygiene is one of the key biosecurity measures to cut down on cross-contamination.

Disease threats can have a great impact on horse health and welfare. Depending on the nature of each disease-causing organisms, the routes of transmission can come from direct contact horse-to-horse or other animals, and indirectly through contaminated vehicles and equipment such as feed and water containers, handler clothing and boots. It is, therefore, essential to maintain a good stable hygiene by regular cleaning and disinfection of surfaces and equipment to reduce pathogen contamination in your yard.

1 Stable Cleaning & Disinfection

- Remove the horse.
- Remove all bedding materials and items e.g. buckets, mangers etc.
- Dry clean by brushing loose debris from ceilings, walls and floors and remove all manure and soiled bedding as much as possible.
- Soak all surfaces thoroughly with DeterKlyn® 2% solution applied ideally at a high pressure. Leave for 10 minutes and then rinse all surfaces with clean water at medium to high pressure. Stubborn stains might need to be scrubbed by hand.
- Leave surfaces to dry.
- Using a knapsack sprayer or pressure washer on a low-pressure setting, apply Virkon® S 1% solution evenly to all washed equipment and internal surfaces, to the point of run-off. Leave for a minimum of 30 minutes.
- Add fresh bedding only when surfaces are completely dry.
- Return the horse to the stable.
- Don't forget to clean and disinfect high-touch areas such as door latches and light switches.
- Regular deep cleaning is recommended as a standard practice. Ideally, this should be carried out once a week; but must be done after sickness or if a different horse is to be placed in the stable or barn.



REMEMBER

- It is important to clean surfaces before disinfection as disinfectants will not work effectively on dirty surfaces!
- Choose disinfectant that is effective against your pathogen(s) of concern.
- Ensure that the disinfection is prepared at the right dilution and allow sufficient contact time for the best disinfection outcomes.

2 Feed and Water Containers, Tack and Grooming Equipment

• Food and water containers

- Wash feed and water buckets with Virkon® S 1% solution.
- Food containers should be cleaned and disinfected at least once or twice a week depending on the feed type. Water buckets should be cleaned by scrubbing and rinsing every day before refilling with clean fresh water.
- Make sure to rinse all food contact surfaces after disinfection.

• Tack

- A good practice is to clean after each use.
- Leather tack can be wiped clean to remove dirt, sweat and grease using a damp cloth or sponge. Then, clean with saddle cleaner and wipe it off. Spray Virkon® S 1% solution if needed e.g. knowing that there's a risk of contamination from other horses or from the event. Leave for a minimum of 30 minutes then wipe clean using a damp cloth. Leave to fully dry and polish off using conditioner.
- Synthetic tack can be cleaned using a brush then soak in a tub or sink. Virkon® S 1% solution can be applied by spraying or soaking.
- Horse bit should be cleaned and disinfected after each use.

• Grooming equipment

- Remove dirt, excess hair as much as possible, soak in a detergent solution if necessary. Rinse with clean water then soak in or spray with Virkon® S 1% solution. Leave for a minimum of 30 minutes then rinse or wipe clean with water.



3 Boot disinfection

- Use Virkon® S disinfectant boot dips on entering the site or shows to help limit the spread of pathogens.
- For horse isolation area(s), clean and disinfect boots thoroughly upon leaving the area.
- Always clean and disinfect your boots before handling other horses.

4 Horsebox/trailer disinfection

- Remove all organic material such as mud, soiled bedding from inside the horsebox and from around the wheels, wheel arches, mudguards and exposed chassis of the trailer using a stiff brush or pressure washer where necessary.
- Detergent wash using DeterKlyn® 2% solution. Ensure all surfaces and equipment are visibly clean and dry before disinfection.
- Working from the outside in, and from top to bottom, disinfect all surfaces using either

a pressure washer, knapsack sprayer or watering can. Use Virkon® S at a dilution rate of 1% to the point of run-off, leave 30 minutes and then rinse thoroughly with clean water.

- Clean and disinfect thoroughly after attending shows, sales, or other events or if different horses are to be transported in them.

5 Other biosecurity & hygiene points

- Dirty or unwashed hands transfer infection. Always wash or sanitise hands during or after handling horses, using soap and water followed by hand sanitiser.
- Separate equipment used for isolated sick horses from other horses in the same yard. Ensure the equipment is cleaned and disinfected before using for another horse or moving to other areas.
- Vehicles including personal cars can be contaminated. Disinfect your cars after attending shows, sales, events or other yards, especially if sick horses are present.