HALAMID®
THE UNIVERSAL DISINFECTANT

✓ ONE DISINFECTANT ALL AROUND THE FARM
✓ EFFECTIVE AGAINST IB, ND AND SALMONELLA
✓ REPLACES TRADITIONAL, MORE HAZARDOUS PRODUCTS

www.halamid.com

THE POWERFUL DISINFECTANT FOR THE POULTRY FARM
HALAMID® has been developed from the starting point of a strong killing effect, and by greatly improving aspects such as stability in solution, corrosiveness and safety compared to more hazardous products such as aldehydes, phenolics and peracetic acid. The resulting powerful yet mild product is ideally suited to be used by poultry farmers. Its unique formula allows for a great variety of applications such as terminal disinfection, drinking water sanitation, foot and wheel dips, fogging and aerial disinfection.

Halamid® is UK DEFRA approved. It is also notified under the EU BPR regulation. Halamid® is in use by poultry farmers worldwide in broiler houses, hatcheries and layer farms.

**ONE DISINFECTANT ALL AROUND THE FARM**

Biosecurity means simplicity
An effective biosecurity program gives vital support to poultry health programs while at the same time reducing the need to use antibiotics to a minimum. Most HACCP biosecurity programs rely on local farm personnel for their execution; procedures should therefore be made as intuitive and easy as possible, in order to get the best results. Too often, sophisticated programs fail due to their complexity in practice. Allowing staff to use one single product for several risk areas at a time quickly gives staff the confidence to properly prepare and apply the disinfectant solution. Obviously this also creates efficiencies in work preparation and the need for less disinfectant stock resulting in lower cost and all-round improvement!

**REPLACES MORE DANGEROUS CHEMICALS**

Safe use
Disinfectants are biocides, developed to kill living micro organisms. They are applied mostly by staff without chemical expertise. Nevertheless many disinfectants such as formaldehyde, peracetic acid and phenolics are dangerous chemicals to be used with extreme caution. Halamid® can be safely handled with standard personal protection such as gloves and face protection which is routine for the use of any professional hygiene product.

Environmental impact
Farm disinfectants still often end up in surface water. The environmental effects of these products are therefore important to consider. Halamid® is readily biodegradable, does not accumulate in river beds and is not toxic to the aquatic environment in the concentrations usually found in farm effluents, unlike for example phenolic based disinfectants. Extensive studies have shown that the ecotoxicity of Halamid® is low.

Axcentive, the producer of Halamid®, supplies and services Halamid® worldwide through dedicated distributors. Apart from the Poultry industry, Axcentive delivers Halamid® to fish farms, pig farms, the dairy industry, pharmaceutical companies and many other sectors. The production site is ISO 9001 certified. Axcentive holds a FDA NADA registration for Halamid® to treat a number of salmonids related diseases in the USA.
**AMID® DISINFECTANT**

**THE UNIVERSAL DISINFECTANT**

**Reliable disinfection**

The efficacy of Halamid® in relation to relevant poultry pathogens such as Salmonella, ND or IB have been confirmed in numerous tests on individual pathogens in our own labs but more importantly at independent reference laboratories. An effective biosecurity program based on Halamid® brings the total bacterial and viral load in the poultry house down to a safe level. At the recommended use concentrations of 0.5 - 1 %, all harmful pathogens are killed. If a higher risk condition has been determined on your farm, then we recommend doubling the use concentrations (to 1-2 %) to nip any outbreak in the bud.

- Replaces traditional, more dangerous chemicals while preserving a full broad spectrum efficacy
- Extremely versatile; used in every step of modern biosecurity programs
- Non corrosive in solution and safe for equipment
- Developed to be effective under soiled conditions and on porous surfaces
- A highly concentrated robust powder disinfectant
- Eradicates all major pathogens at 1 % (1:100), following European norms
- UK DEFRA approved at 1:300 (General orders) and 1:150 (Poultry orders)
- Applications include spraying, misting, fogging, drinking water sanitation and in foot/wheel dips
- Exceptionally easy in use, with a foaming agent if required
- Responsible choice for the environment

**VIRUS**

<table>
<thead>
<tr>
<th>Virus</th>
<th>Concentration (%)</th>
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<tbody>
<tr>
<td>Avian influenza virus</td>
<td>0.1 % (1:1000)</td>
</tr>
<tr>
<td>Adeno virus (egg drop syndrome)</td>
<td>1 % (1:100)</td>
</tr>
<tr>
<td>Newcastle disease</td>
<td>0.7 % (1 :150)</td>
</tr>
<tr>
<td>Gumboro disease (IBD)</td>
<td>0.5 % (1 :200)</td>
</tr>
<tr>
<td>Infectious bronchitis virus (IBV)</td>
<td>0.2 % (1 :500)</td>
</tr>
<tr>
<td>Avian reovirus (viral arthritis)</td>
<td>0.5 % (1 :200)</td>
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</tbody>
</table>

**BACTERIA**

<table>
<thead>
<tr>
<th>Bacteria</th>
<th>Concentration (%)</th>
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<tbody>
<tr>
<td>Salmonella sp</td>
<td>0.3 % (1 :300)</td>
</tr>
<tr>
<td>Campylobacter sp</td>
<td>0.02 % (1 :5000)</td>
</tr>
<tr>
<td>E-coli</td>
<td>0.5 % (1 :200)</td>
</tr>
<tr>
<td>Listeria</td>
<td>0.3 % (1 :330)</td>
</tr>
<tr>
<td>Pseudomonas sp</td>
<td>0.5 % (1 :200)</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>0.5 % (1 :200)</td>
</tr>
<tr>
<td>Streptococcus faecalis</td>
<td>0.5 % (1 :200)</td>
</tr>
<tr>
<td>Mycoplasma</td>
<td>0.5 % (1 :200)</td>
</tr>
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</table>

**APPLICATIONS**

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**EFFECTIVE AGAINST IB, ND AND SALMONELLA**

<table>
<thead>
<tr>
<th>Field Trial</th>
<th>Terminal Disinfection</th>
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<tbody>
<tr>
<td>Two houses of approx. 1300 m² floor surface each, were spray-disinfected using an orchard sprayer and a Halamid® solution at 0.5 %. There was no fogging step afterwards. A total of less than 1000 L solution and 5 kg Halamid® was used for one house (0.3 L/m² based on total surface area). The TVC/cm² readings on floors, walls and posts and on drinkers and feeders were all less than 10, except the fan shaft vent (25). This result is obtained without any subsequent thermal fogging!</td>
<td></td>
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</tbody>
</table>

In programs that do include thermal fogging, excellent results were obtained with as little as 0.2 % Halamid® solution in the wet-spray disinfection step. This farm had previously been using phenolic disinfectants (0.4 %) and a comparative test under identical conditions showed that the hygiene scores with Halamid® were equal to those obtained with phenolics.
Easy to use
Prepare a Halamid® solution by adding luke warm water to a container with the right amount of Halamid®. Multiply the floor surface by 2.5 to obtain the total surface to treat. Then calculate the amount of solution required.

Terminal disinfection. Dry clean out followed by wet cleaning with water and preferably a detergent. Spray the Halamid® solution in one run so that all surfaces are effectively treated. If you prefer a foaming disinfectant to prolong the contact time on the walls and ceiling and in order to mark the treated surfaces, add foaming agent (see our separate instruction leaflet). Alternatively Halamid® misting is an option.

Dipslides. Use dip slides before cleaning and before and after disinfection. Dip slides offer a practical method to check the effect of biosecurity measures, motivating staff towards perfect results.

Objects. Disinfect any tools and equipment preferably via spraying or soaking with Halamid® (0.5 %; 1:200) before placing them back in the house. Pay attention to personnel hygiene (foot dips) and do disinfect rooms giving access to the main house. Close the house after disinfection, avoiding unauthorized access.

Residual activity. Halamid® solution that has dried off at surfaces, particularly on the floor, keeps a residual activity over a few days. Before stocking optionally re-wet slightly with a fine water spray and let dry. Place the clean litter. Don’t wet the new litter by spraying a disinfectant; it causes residual bacteria to proliferate. Use an additional Halamid® fogging step to disinfect the litter dry instead.

Thermal fogging. Fog Halamid® with commercially available thermofogging equipment. Add an optional fogging agent to enhance the density and retention time of the fog. The lower toxicity of Halamid® compared to products such as aldehydes makes quick re-entry possible. This is time gained!

APPLICATION CONCENTRATION REMARK
GENERAL BIOSECURITY
Aerial disinfection in the presence of chickens Aerial spray 0.5 % (1:200) Use portable spraying equipment providing very fine droplets.
Wheel and Foot dip Passage bath 1 % (1:100) Replace every 3 days or when very dirty.
Vehicle disinfection Spraying 1 % (1:100) Apply thoroughly and generously on all surfaces. Portable stock solutions are compatible with anti-freeze for winter conditions.
Water system sanitation Shock (birds out) 0.5 % (1:200) Fill the system with the solution, leave preferably overnight or at least one hour and flush with clean water.
Continuous (birds in) 50 ppm (1:2000) Dose via the header tank or dosing pump.

BROILER FARM
Terminal disinfection Step 1: Wet spray In case of specific virus control, double the concentrations.
Spraying 0.5 % (1:200) Apply at 0.3 L/m² treated surface using a low pressure sprayer.
Misting as main disinfection step (see our separate instruction leaflet) 2.5 % (1:40) Apply at 0.15 L/m² floor surface, using a fixed system or orchard sprayer.
During operation close the house where possible and allow mist to settle before re-opening vents and windows.
Terminal disinfection Step 2: Fogging Thermal fogging (see our separate instruction leaflet) 10 % (1:10) Apply 1 L per 60 m² floor surface.
Without wet spray disinfection: apply 1 L per 30 m² floor surface.
Aerial disinfection in the presence of chickens Aerial spray 0.5 % (1:200) Use portable spraying equipment providing very fine droplets. Apply 1 L per 10 - 20 m² floor surface.

HATCHERY
Egg disinfection Dipping 0.3 % (1:300) See separate instruction leaflet.
Misting 0.3 % (1:300) Short misting procedure to wet the eggs without dripping, using portable fogging or misting equipment.

LAYER FARM
Aerial disinfection in the presence of chickens Aerial spray 0.5 % (1:200) Use portable spraying equipment providing very fine droplets. Apply 1 L per 10 - 20 m² floor surface.
Terminal disinfection Wet spray In case of specific virus control, double the concentrations.
Spraying 0.5 % (1:200) Apply at 0.3 L/m² treated surface using a low pressure sprayer.
Misting as main disinfection step (see our separate instruction leaflet) 2.5 % (1:40) Apply at 0.15 L/m² floor surface, using a fixed system or orchard sprayer.
During operation close the house where possible and allow mist to settle before re-opening vents and windows.