

## EASY TO USE

Prepare a HALAMID® solution by adding lukewarm 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 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.

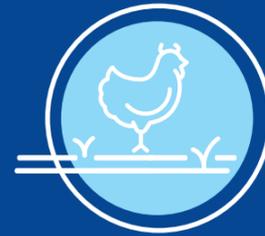
**THERMAL FOGGING.** Fog HALAMID® with commercially available thermofogging equipment. Add an optional fogging agent to enhance the density and retention time of the fog. The lower toxicity of HALAMID® compared to products such as aldehydes makes quick re-entry possible. This is time gained!

## BIOSECURITY IN ONE SINGLE PACK

HALAMID® is a highly convenient multi-purpose biosecurity solution all in one pack for a wide range of applications:

APPLICATION		CONCENTRATION	REMARK
<b>GENERAL BIOSECURITY</b>			
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 day.
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 (1:20 000)	Dose via the header tank or dosing pump.
<b>BROILER FARM</b>			
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/m <sup>2</sup> treated surface using a low pressure washer.
	Misting as main disinfection step (See our separate instruction leaflet)	2.5 % (1:40)	Apply at 0.15 L/m <sup>2</sup> floor surface (60 ml/m <sup>3</sup> ), using a fixed or movable spraying system. 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 m <sup>2</sup> floor surface (7 ml/m <sup>3</sup> ).
		10 % (1:10) (one-step fog)	Without wet spray disinfection: apply 1 L per 30 m <sup>2</sup> floor surface (14 ml/m <sup>3</sup> ).
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 m <sup>2</sup> floor surface (20-40 ml/m <sup>3</sup> ).
<b>HATCHERY</b>			
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.
	Thermal fogging	10 % (1:10)	Use a standard thermofogging machine (Pulsfog, Vectorfog or alike) to apply the HALAMID® solution. Prepare a solution of 10% HALAMID® (100g in 1 litre water). This solution will be stable for 7 days. (Optionally up to 20% of MPG misting agent can be added). Place the exhaust of the thermofogger inside the trucks cargo room and switch on the machine. Fog for 30 minutes. Ventilate the cargo room for 1 hour. Unload the eggs.
<b>LAYER FARM</b>			
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 m <sup>2</sup> 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/m <sup>2</sup> treated surface using a pressure washer.
	Misting as main disinfection step (See our separate instruction leaflet)	2.5 % (1:40)	Apply at 0.15 L/m <sup>2</sup> 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.

axcentive



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Never use HALAMID® in combination with other biocides such as formaldehyde. The use of HALAMID® is subject to national registrations which might differ from the general protocols proposed in this brochure.

www.halamid.com

- ✓ Wet spray
- ✓ Thermal fog
- ✓ Mist
- ✓ Aerial spray



# HALAMID®

## THE UNIVERSAL DISINFECTANT

by axcentive



THE POWERFUL  
DISINFECTANT  
FOR THE POULTRY  
FARM

- ✓ One disinfectant all around the farm
- ✓ Effective against IB, ND and Salmonella
- ✓ Replaces traditional, more hazardous products

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# HALAMID®

## THE UNIVERSAL DISINFECTANT

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 like 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!

#### RESPONSIBLE CHOICE FOR DISINFECTION COMPARED TO OTHER DISINFECTANTS

	Quats	Aldehydes	Peroxygens	Chlorine	HALAMID®
All-round efficacy	-	-	✓	✓	✓
Stability	✓	-	-	-	✓
Longevity	✓	-	-	-	✓
Non-corrosive	✓	-	-	-	✓
No need for rotation	-	-	✓	✓	✓
Safe to environment	-	-	-	-	✓
Safe to use	-	-	-	-	✓

HALAMID® contributes to several Sustainable Development Goals (SDGs) outlined by the United Nations (<https://sdgs.un.org/goals>). These include clean water, sustainable food production, and the protection of aquatic and land life.

#### CLEAN WATER & SANITATION



Already at low dosage HALAMID® is an efficient disinfectant for drinking water installations in livestock farms. It keeps the water clear and clean whether it is sourced from wells, ground or city water. HALAMID® contributes to keep the livestock healthy by providing potable water.

#### RESPONSIBLE CONSUMPTION & PRODUCTION



HALAMID® is an environmentally friendly disinfectant which is less hazardous than traditional disinfectants in production, transportation, and use, minimizing potential environmental contamination. While very effective in killing pathogens, it's safer for workers and less harmful to the animals. Its versatility reduces the need for multiple products, promoting resource efficiency.

#### LIFE BELOW WATER



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 riverbeds 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.

#### LIFE ON LAND



HALAMID® is readily biodegradable and will decompose in time whenever remnants of material end up in the environment. As such HALAMID® has low effect on the land life and promotes plant and fauna diversity. HALAMID®'s biodegradability minimizes its impact on land life and promotes biodiversity.

## axcentive

Axcentive, the producer of HALAMID®, supplies and services HALAMID® worldwide through dedicated distributors. Apart from the aqua industry, Axcentive delivers HALAMID® to poultry farms, pig farms, the dairy industry, pharmaceutical companies, and many other sectors. The production site is ISO 9001 certified. Axcentive holds a US FDA drug registration to treat a number of salmonid-related diseases. HALAMID® is registered under the EU Biocidal Product Regulation.

**"Of all new disinfectant brands offered to me over the last 10 years, HALAMID® has the best profile"** - a major poultry distributor -

### EFFECTIVE AGAINST IB, ND AND SALMONELLA

#### RELIABLE DISINFECTION

The efficacy of HALAMID® in relation to relevant poultry pathogens such as New Caste Disease, Avian Influenza, Salmonella or Campylobacter have been confirmed in numerous tests on individual pathogens at independent laboratories and on field. 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 concentration of 0.5 to 1%, all harmful pathogens are killed. If a higher risk condition has been determined on your farm, then we recommend doubling the concentrations (to 1 -2%) to nip any outbreak in the building.

- ✓ INDEPENDENTLY PROVEN BROAD ACTIVITY SPECTRUM
- ✓ POWERFUL, MULTI-PURPOSE BIOSECURITY
- ✓ RESPONSIBLE CHOICE FOR THE ENVIRONMENT
- ✓ NON-CORROSIVE IN SOLUTION AND SAFE FOR EQUIPMENT
- ✓ EFFECTIVE UNDER SOILED CONDITIONS AND POROUS SUBSTRATES
- ✓ PROVEN ACTIVITY AT LOW TEMPERATURES

	Concentration (%)
<b>VIRUS</b>	
Avian influenza virus	<b>0.1%</b> (1:1000)
Adeno virus (egg drop syndrome)	<b>1%</b> (1:100)
Newcastle disease	<b>0.5%</b> (1:200)
Gumboro disease (IBD)	<b>0.5%</b> (1:200)
Infectious bronchitis virus (IBV)	<b>0.5%</b> (1:200)
Avian reovirus (viral arthritis)	<b>0.5%</b> (1:200)
<b>BACTERIA</b>	
Salmonella sp	<b>0.3%</b> (1:300)
Campylobacter sp	<b>0.02%</b> (1:5000)
E-coli	<b>0.1%</b> (1:1000)
Listeria	<b>0.3%</b> (1:330)
Pseudomonas sp	<b>0.5%</b> (1:200)
Staphylococcus aureus	<b>0.5%</b> (1:200)
Streptococcus faecalis	<b>0.5%</b> (1:200)
Mycoplasma	<b>0.5%</b> (1:200)
<b>FUNGI</b>	
Aspergillus brasiliensis	<b>1.1%</b> (1:90)

#### PREVENTION IS THE BEST TREATMENT. SUPPORTING THE REDUCTION OF ANTIBIOTICS.

Governments worldwide are seeking reductions in the use of antibiotics to limit the development of antibiotic resistance passing into the human population. With proven efficacy against major pathogens, HALAMID® meets the toughest biosecurity challenges and provides the key to combating the effects of bacteria and viruses in livestock production. The mode of action of HALAMID® is based on an irreversible destruction of the envelope and cell material of microorganisms. This oxidizing action ensures that microorganisms are effectively killed and do not have a chance to develop resistance, directly helping to reduce the formation of antimicrobial resistance (AMR) on farms.

## THE POWERFUL DISINFECTANT FOR THE POULTRY FARM

