

## EASY TO USE

### PIG HOUSE DISINFECTION.

Preferably follow an all-in all-out routine. Dry clean followed by wet cleaning with water and preferably a detergent. Make sure all boxes and all other equipment is thoroughly cleaned as well. Spray a HALAMID® solution in one run so that all surfaces (floors, walls, equipment) are effectively treated. If you prefer a foaming disinfectant to prolong the contact time on the walls and ceiling and to mark the treated surfaces, add foaming agent (see our separate instruction leaflet). Alternatively, HALAMID® misting or fogging are viable options.

**SPRAY APPLICATION.** Prepare a HALAMID® solution by adding the right amount of HALAMID® to a container containing lukewarm water. With a usage of 0.3l/m² and a concentration of 0.5%, the total amount of HALAMID® can be obtained using below formula (2.5 = avg stable height): Required quantity (in kg)=

$$\frac{\text{Floor surface (m}^2\text{)} \times 2.5 \times 0.3 \text{ (l/m}^2\text{)} \times 5 \text{ (g/l)}}{1000}$$

**MISTING APPLICATION.** A very cost-effective application is by misting. A HALAMID® solution of 30g/l is prepared and pumped through a piping system equipped with nebulizers. The nebulization is effective and takes place within 30 minutes.

**THERMAL FOGGING.** Fog HALAMID® with commercially available thermofogging equipment. Add an optional fogging agent to enhance the density and retention time of the fog. Fogging solutions can be made up to 100g/l HALAMID® solids. The lower toxicity of HALAMID® compared to products such as aldehydes makes quick re-entry possible. This is time gained!

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

**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.

**RESIDUAL ACTIVITY.** HALAMID® solutions that have dried at surfaces, particularly on the floor, keeps a residual activity over a few days. Before stocking with animals optionally re-wet slightly with a fine water spray and allow to dry. This optional step ensures further eradication of any pathogens.

## 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>PIG HOUSE</b>		
Pig house 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 washer.
	Misting as main disinfection step	2.5 % (1:40) Apply at 0.15 L/m² floor surface (60 ml/m²), 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	10 % (1:10) Apply 1 L per 60 m² floor surface (7 ml/m²).
		10 % (1:10) (one-step fog) Without wet spray disinfection: apply 1 L per 30 m² floor surface (14 ml/m²).
Aerial disinfection in the presence of animals	Aerial spray	0.5 % (1:200) Use portable spraying equipment providing very fine droplets. Apply 1 L per 10 - 20 m² floor surface (20-40 ml/m²).
<b>GENERAL BIOSECURITY</b>		
Aerial disinfection in the presence of animals	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 (animals 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 (animals in)	50 ppm (1:20 000) Dose via the header tank or dosing pump.

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



# HALAMID®

## THE UNIVERSAL DISINFECTANT

by **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](http://www.halamid.com)



**THE POWERFUL  
DISINFECTANT  
FOR THE PIG FARM**

- ✓ One disinfectant all around the farm
- ✓ Effective against African Classical Swine Fever, PRRS and FMD
- ✓ Replaces traditional, more hazardous products

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# HALAMID®

## THE UNIVERSAL DISINFECTANT

HALAMID® is a powerful and safe disinfection for pig farmers. Quit using harsh chemicals and focus on a safer, more effective way to keep your pigs healthy. HALAMID® is a well-established disinfectant specifically designed for swine farms. Developed with a powerful formula, HALAMID® delivers superior killing power against harmful pathogens while minimizing risks to your animals and your own well-being. HALAMID® is mild for equipment and environment.

HALAMID® is notified under the EU Biocidal Products Regulation. It is in use by pig farmers worldwide for use in breeding, piglet nursery and growing-finishing pigs.

### ONE DISINFECTANT ALL AROUND THE FARM

#### BIOSECURITY MEANS SIMPLICITY

An effective biosecurity program is vital for supporting pig health while minimizing antibiotic use. Most HACCP biosecurity programs rely on local farm personnel for implementation, so procedures must be simple and intuitive to ensure success. Using a single product for multiple disinfection tasks simplifies processes, reduces disinfectant inventory, and ultimately improves efficiency.

#### 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 Swine Industry, Axcentive delivers HALAMID® to fish farms, poultry 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.

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

### EFFECTIVE AGAINST ASF, CSF, PRRS AND FMD

#### RELIABLE DISINFECTION

The efficacy of HALAMID® in relation to relevant pig pathogens such as African Swine Fever, PRRS and FMD have been confirmed in numerous tests on individual pathogens at independent reference laboratories. An effective biosecurity program based on HALAMID® brings the total bacterial and viral load in the immediate environment of the pigs down to a safe level. The recommended use concentration is 0.5 - 1 % (dilution 1:100-1:200) which is the right dosage for routine disinfection. If a higher risk condition has been determined on your farm, then we recommend doubling the use concentrations (to 1 - 2 %) to prevent any outbreaks.

	Concentration (%)
<b>VIRUS</b>	
African Swine Fever virus	0,3
Aujeszky Disease virus	1,5
Classical Swine fever virus / Hog Cholera	1,2
Corona viruses (PEDV, TGE)	1,0
Foot-and-mouth disease virus (FMD)	2,0
Porcine Parvo virus	2,5
Porcine Reproductive and Respiratory syndrome	0,3
<b>BACTERIA</b>	
Actinobacillus pleuropneumoniae (APP)	0,4
Brachyspira	0,5
Brucella	0,3
Enterococcus	0,5
E. coli	0,5
Lawsonia intracellularis (Ileitis)	0,3
Haemophilus parasuis	0,4
Listeria	0,3
Mycobacterium smegmatis	2,5
Pasteurella	0,3
Pseudomonas	0,5
Salmonella	0,5
Staphylococcus	0,5
Streptococcus suis	0,5
<b>FUNGI</b>	
Aspergillus sp	1,1

- ✓ REPLACES TRADITIONAL, MORE DANGEROUS CHEMICALS
- ✓ A FULL BROAD SPECTRUM EFFICACY
- ✓ EXTREMELY VERSATILE; USED IN EVERY STEP OF MODERN BIOSECURITY PROGRAMS
- ✓ NON-CORROSIVE IN SOLUTION AND NON-DAMAGING TO EQUIPMENT
- ✓ DEVELOPED TO BE EFFECTIVE UNDER SOILED CONDITIONS AND ON POROUS SURFACES
- ✓ CONCENTRATED AND ROBUST DISINFECTING POWDER
- ✓ CAN BE SPRAYED, MISTED, FOGGED
- ✓ USED FOR STABLE DISINFECTION
- ✓ USED FOR DRINKING WATER SANITATION
- ✓ USED FOR FOOT/WHEEL DIPS
- ✓ EASY IN USE, CAN BE FORMULATED WITH A FOAMING AGENT IF DESIRED
- ✓ RESPONSIBLE CHOICE FOR THE ENVIRONMENT

#### AFRICAN SWINE FEVER

African Swine Fever (ASF) has spread in recent years from Africa to most of Europe, South America and Asia and is currently present in domestic and wild pigs. Though African Swine fever and Classical Swine Fever ("Hog Cholera") result in similar clinical signs with pigs, their virus types are completely different. The ASF virus (an Asfivirus) is very resistant and can survive outside the pig for a long time. Stamping out is the only way to eradicate the disease from a farm. But given the survival of the virus outside the pigs, this is only effective in combination with strict biosecurity measures. HALAMID® is a powerful biocide and recent tests at a certified lab confirm it easily kills the ASF virus at a concentration of only 0.3 % with a contact time of 30 minutes.

### THE POWERFUL DISINFECTANT FOR THE PIG FARM

