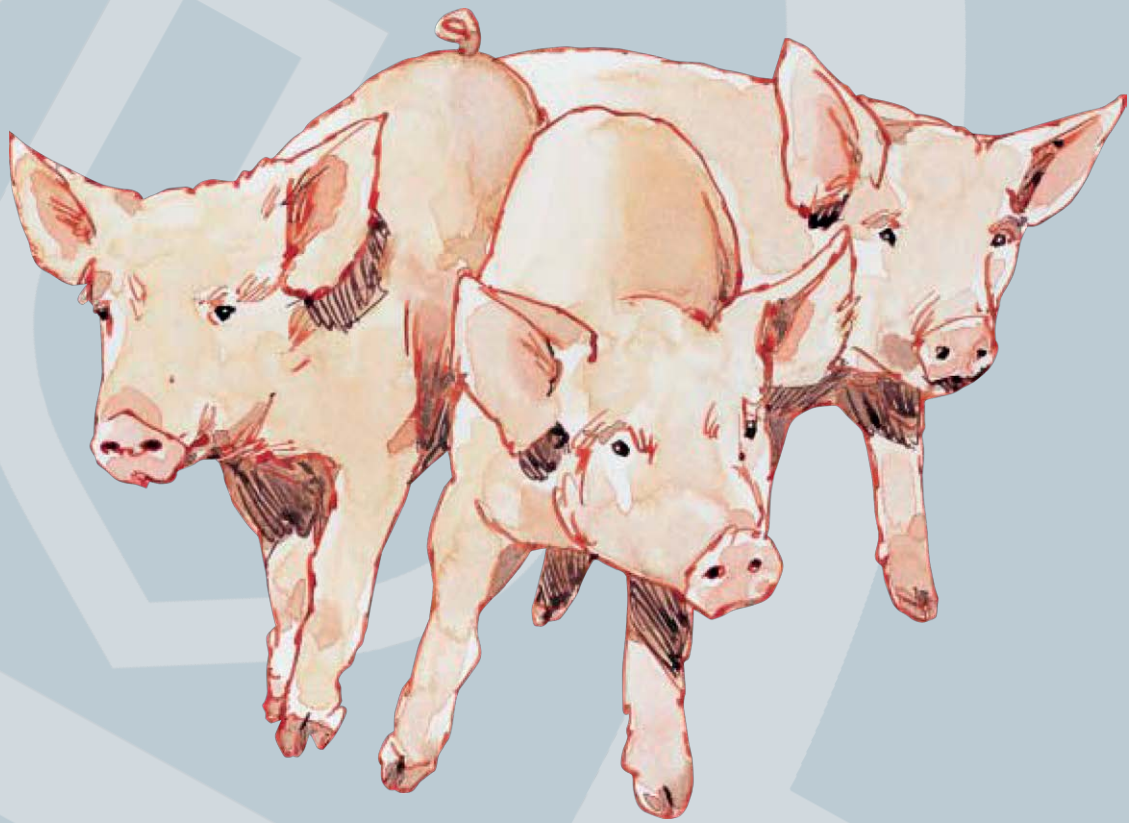


# Complete Pig Disinfection Programme



Livestock Protection



Evans Vanodine International plc



## TARGET™ POWERGEL

### Power Wash Cleaner

- Powerful, heavy duty, concentrated gel detergent, for use with all types of high or low pressure machines or by foam
- Suitable for cleaning floors, walls, ceilings and equipment in piggeries
- May be used through a pressure washer as a cleaner for vehicles
- Pack size: 25lt drums



## GPC8™

### Power wash Cleaner

- DEFRA approved glutaraldehyde disinfectant
- Non-corrosive biodegradable, patented formula
- Highly effective against bacteria, viruses and fungi
- 25 litres makes up to 5,000 litres for general disinfection
- Residual activity on clean surfaces for up to 8 weeks after use
- Pack size: 5lt, 25lt & 200lt drums



## FAM® 30

### Iodophor Disinfectant

- DEFRA approved for general purpose use to protect livestock
- Bactericidal, virucidal and fungicidal
- Active in the presence of organic matter
- Cleans and disinfects in one operation
- Biodegradable and stable
- Pack size: 5lt, 25lt & 200lt drums



A rigorous and effective disinfection programme is essential for the effective elimination of viral, bacterial and fungal disease-causing microorganisms.

Disease in pigs can result not only in direct losses due to dead pigs but in losses due to medication costs, poor feed conversions and low weights. The financial cost of these losses far outweighs the cost of implementing an effective cleaning and disinfection programme. Used correctly disinfection can also reduce the need for more expensive aspects of disease control such as vaccination and antibiotic therapy.

The number of microorganisms on the surfaces of pig housing may be TEN THOUSAND MILLION OR MORE PER SQUARE CENTIMETRE.

These must be reduced to an acceptable level of less than ONE THOUSAND PER SQUARE CENTIMETRE during the cleaning and disinfection programme.

Attention to detail is important and the programme must be carefully adhered to in order to obtain the optimum result.

It is advisable to wear protective clothing when using chemicals to clean and/or disinfect, and in some situations the use of goggles is required.

This programme is divided into different stages and each one should be completed thoroughly before moving on to the next.

<b>STAGE ONE</b>	PIGS, EQUIPMENT AND SOILAGE REMOVED FROM PENS
<b>STAGE TWO</b>	CLEAN AND DISINFECT ROOMS, PENS AND WATER SYSTEMS
<b>STAGE THREE</b>	CLEAN AND DISINFECT ELECTRICAL EQUIPMENT
<b>STAGE FOUR</b>	CLEAN AND DISINFECT OTHER EQUIPMENT
<b>STAGE FIVE</b>	SITE SECURITY
<b>STAGE SIX</b>	CLEANING AND DISINFECTING VETERINARY EQUIPMENT



## STAGE ONE

## PIGS, EQUIPMENT AND SOILING REMOVED FROM PENS

- 1 Remove all pigs.
- 2 Remove all portable equipment.
- 3 Turn off all electrical circuits other than room lights.
- 4 Fully clean using a shovel, brush and scraper.
- 5 If the water is supplied from a header tank, turn off supply to the tank and drain the water system.
- 6 Remove the header tank so it can be cleaned.



## STAGE TWO

## CLEAN AND DISINFECT ROOMS, PENS AND WATER SYSTEMS

- Apply **TARGET POWERGEL** solution through a foam cleaner, pressure washer or knapsack sprayer at a dilution rate of 1:50 and soak the entire room to be cleaned. Start at the apex of the roof at the furthest point from the door, working down the walls to the floor. Pay particular attention to corners, cracks and the underside of crates and gates. Ensure grease or ingrained organic soil is removed as this can adversely affect the action of the disinfectant. Leave for 30 minutes.
- 1
  - 2 Pressure wash the header tank, re-connect and fill with clean water. Add **FAM® 30** disinfectant diluted at 1:100 and leave for a minimum of 30 minutes.
  - 3 Continue pressure washing the room, starting at the roof, working down the walls to the floor and working towards the door.
  - 4 Drain the water system, making sure water is flushed through every drinker and washed out of the room.
  - 5 Fill the water system with fresh water and drain, making sure water is flushed through every drinker.
  - 6 Fill a knapsack sprayer with **GPC8™** disinfectant solution (1:50 if known disease problem or 1:100 if no known problem) preferably using warm or hot water as this increases effectiveness of the disinfectant.
  - 7 Disinfect all surfaces of the room, starting at the roof at the furthest point from the door, working down the walls to the floor. Ensure extra coverage on corners and cracks and the underside of equipment.
  - 8 Allow room to dry overnight and replace clean and disinfected equipment before re-stocking.



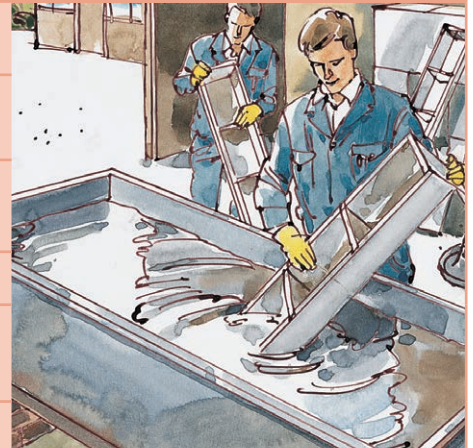


**STAGE THREE****CLEAN AND DISINFECT ELECTRICAL EQUIPMENT**

- 1 Disconnect from electric supply and remove from room.
- 2 With a stiff brush remove as much dust and organic material as possible.
- 3 Make up a solution of **TARGET™ POWERGEL** at 1:100 with water in a bucket.
- 4 Using a cloth, clean all surfaces of the equipment.
- 5 Make a solution of **GPC8™** disinfectant at 1:100 with water in a hand held sprayer/mister (warm or hot water again would be more effective).
- 6 Disinfect all surfaces using a fine spray.
- 7 Leave to dry overnight.

**STAGE FOUR****CLEAN AND DISINFECT OTHER EQUIPMENT USING WATER BATH**

- 1 Remove equipment from room.
- 2 Using a stiff brush remove as much dust and organic matter as possible.
- 3 Immerse in a water bath filled with a solution of **TARGET™ POWERGEL** at 1:100 with water for 30 minutes.
- 4 Remove and rinse off using a pressure washer if necessary.
- 5 Immerse in a water bath, filled with a solution of **GPC8™** disinfectant at 1:100 with water for 30 minutes.
- 6 Remove and allow to dry overnight.



VOLUMES OF WATER AND PRODUCT REQUIRED TO GIVE DILUTION RATES OF 1:50 FOR **TARGET™ POWERGEL** AND 1:100 FOR **GPC8™**

<b>WATER</b> (LITRES)	<b>TARGET™ POWERGEL</b> (ML)	<b>GPC8™</b> (ML)
10	200	100
20	400	200
30	600	300
40	800	400
50	1000	500

## STAGE FIVE

## SITE BIOSECURITY - FOOTBATHS

- 1 Fill the foot bath with a solution of **FAM® 30** at 1:180 with water (see chart below)
- 2 Place foot baths at all the entry points to the farm, at the loading ramp and outside farrowing houses, nurseries and hospital pens.
- 3 Always dip feet when entering these areas. If boots are soiled, clean with water and a stiff brush before using foot bath.
- 4 Replace solution in foot baths once per week, or sooner if colour of solution fades.



### FOOT BATH DILUTION RATES

WATER (LT)	FAM® 30 (ML)	WATER (LT)	FAM® 30 (ML)
10	55	40	220
20	110	50	275
30	165	60	330

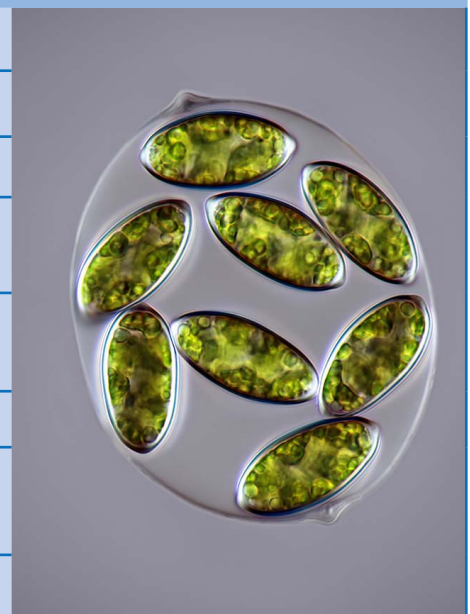
### DISINFECTION OF PATHS, ROADWAYS AND AREAS AROUND HOUSES

- 1 Keep paths and areas as clean as possible, as dung and refuse are a potential source of infection.
- 2 Spray or brush down these areas regularly with a solution of **FAM® 30** at 1:180 with water at a rate of 300ml per square metre.

## STAGE SIX

## COCCIDIOSIS / CRYPTOSPORIDIUM TREATMENT

- 1 Remove pigs from pens and stalls.
- 2 Remove all portable equipment.
- 3 Remove organic material by hand.
- 4 Apply **TARGET™ POWERGEL** at 1:14 (7%) solution as a foam or through a low pressure washing machine (less than 70 bar).
- 5 Allow 1 hour contact time before rinsing off thoroughly with clean water through a low pressure washing machine (less than 70 bar).
- 6 Allow to dry.
- 7 Spray all areas thoroughly with **GPC8™** solution at 1:35 (2.6%) 300ml per square metre and allow to dry. For best results apply as a foam.
- 8 Refit portable equipment and re-stock.



# EVANS VANODINE DISINFECTANTS

Effective against major diseases affecting pigs

BACTERIAL DISEASES			
Disease	Pathogenic organism	GPC8™ (Effective dilution)	FAM® 30 (Effective dilution)
Atrophic rhinitis	Bordetella bronchiseptica	1:200	1:200
Atropic rhinitis, Pasteurellosis	Pasteurella multocida	1:400	1:100
Colibacillosis, Bowel Oedema	Escherichia coli	1:200	1:100
Cystitis/Pyelonephritis	Pseudomonas aeruginosa	1:50	1:100
Salmonellosis	Salmonella spp	1:200	1:100
Tuberculosis	Mycobacterium spp	N/T	1:20
Enzootic pneumoniae	Mycoplasma hyopneumoniae	1:64000 Bacteriostatic dilution	1:4000
VIRAL DISEASES			
African swine fever	Iridovirus	1:50	1:200
Aujeszky's disease	Herpes virus	1:250	N/T
PRRS (Blue ear disease)	Arterivirus	1:200	1:200
Swine fever (Hog Cholera)	Togavirus	1:100	N/T
Porcine parvovirus	Parvovirus	1:200	Not Effective
Swine Vesicular Disease	Picornavirus	Not Effective	1:100
Foot & Mouth disease	Picornavirus	1:200	1:550
Transmissible Gastroenteritis (T.G.E.)	Coronavirus	1:200	1:50
FUNGAL DISEASE			
Piglet diarrhoea	Candida albicans	1:100	1:50

N/T - Not Tested





Evans Vanodine has been developing and manufacturing consistent, efficient and cost effective cleaning and hygiene products for over 100 years. Its products cover an extensive range of applications for the industrial, janitorial, food process and animal health sectors. The company currently exports to 72 countries worldwide, with a further 10 countries serviced by licensed manufacturing units overseas.

Evans Vanodine has built a reputation on innovation and commitment to research and development, ensuring a flow of new and improved formulations. In-house laboratories enable the company to deliver quality and consistency at every stage of production and the company has achieved accreditation by the British Standards institution under ISO 9001 and ISO 14001. The UKAS accredited Microbiology laboratory is approved to test disinfectants against European Standard test methods, which ensures products are fit for purpose and that bactericidal claims are substantiated, with test profiles available to customers.



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Commitment to quality and service is deeply rooted in the Evans family tradition and this, together with dedicated staff throughout the company, will ensure continued success for Evans Vanodine and their customers for years to come.

Distributed by:

**Evans Vanodine International plc**  
Brierley Road, Walton Summit, Preston. PR5 8AH  
Telephone +44 (0)1772 322200 Fax: +44 (0)1772 626000  
Web: [www.evansvanodine.co.uk](http://www.evansvanodine.co.uk)  
e-mail: [export@evansvanodine.co.uk](mailto:export@evansvanodine.co.uk) - For markets outside the UK  
[sales@evansvanodine.co.uk](mailto:sales@evansvanodine.co.uk) - For UK enquiries



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