

Pig Disinfection Programme



Livestock Protection



Evans Vanodine International plc



SHIFT™

Power Wash Cleaner

- Powerful, heavy duty, concentrated detergent, for use with all types of high or low pressure machines
- Suitable for cleaning floors, walls, ceilings and equipment in Piggeries
- May be used through a pressure washer as a cleaner for vehicles
- Pack size: 5lt, 25lt & 200lt polyethylene drums



GPC8™ New Formulation

Disinfectant / 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 polyethylene 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 & 20lt polyethylene drums



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Pig Hygiene Programme

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

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 costs of these losses far outweigh 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 micro-organisms 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.

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



STAGE ONE

PIGS, EQUIPMENT AND SOILAGE REMOVED FROM PENS

- 1 Remove all pigs.
- 2 Remove all portable equipment.
- 3 Turn off all electrical circuits other than the room lights.
- 4 Fully de-soil 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 **SHIFT** solution through a steam cleaner, power washer or a knapsack sprayer at a dilution rate of 1:250 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 header tank, re-connect and fill with clean water. Add **GPC8** disinfectant diluted at 1:200 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 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 the 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 the room to dry overnight and replace clean and disinfected equipment before re-stocking.



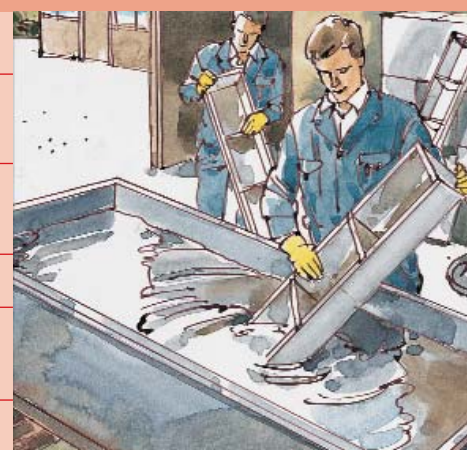
STAGE THREE CLEAN AND DISINFECT ELECTRICAL EQUIPMENT

- 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 **SHIFT** at 1:250 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 **SHIFT** at 1:250 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
1:250 FOR **SHIFT** AND 1:100 FOR **GPC8**

| WATER (Litres) | SHIFT (ml.) | GPC8 (ml.) |
|----------------|-------------|------------|
| 10 | 40 | 100 |
| 20 | 80 | 200 |
| 30 | 120 | 300 |
| 40 | 160 | 400 |
| 50 | 200 | 500 |

STAGE FIVE SITE SECURITY

FOOT BATHS

- 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.
- 4** If boots are soiled, clean with water and a stiff brush before using foot bath.
- 5** Replace solution in foot baths once per week, or sooner if colour of solution fades.

FOOT BATH DILUTION RATES

| WATER (Litres) | FAM 30 (ml) | WATER (Litres) | 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 CLEANING AND DISINFECTING VETERINARY EQUIPMENT

AFTER USE

- 1** If necessary dismantle equipment.
- 2** Wash under running water, using a scrubbing brush to remove debris.
- 3** Immerse in a sealable container filled with a solution of **GPC8** at 1:50 with water until it is required. (See chart below). Rinse with potable water before re-use.
- 4** Equipment that rusts must be immersed in the solution for 30 minutes, then rinsed, dried and stored in a clean air tight container.

FOOT BATH DILUTION RATES

| WATER (Litres) | GPC8 (ml) | WATER (Litres) | GPC8 (ml) |
|----------------|-----------|----------------|-----------|
| 0.5 | 10 | 3 | 60 |
| 1 | 20 | 4 | 80 |
| 2 | 40 | 5 | 100 |



EVANS VANODINE DISINFECTANTS

Effective against major diseases affecting Pigs

| BACTERIAL DISEASES | | | |
|--|---------------------------|---|---------------------------|
| Disease | Pathogenic organism | GPC8 New Formulation Effective dilution | FAM 30 Effective dilution |
| Atrophic rhinitis | Bordetella bronchiseptica | 1:100 | 1:200 |
| Atrophic rhinitis, Pasteurellosis | Pasteurella multocida | 1:400 | 1:100 |
| Colibacillosis, Bowel Oedema | Escherichia coli | 1:200 | 1:100 |
| Cystitis/Pyelonephritis | Pseudomonas aeruginosa | 1:50 | 1:50 |
| 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 | 1:125 |
| PRRS - (Blue ear disease) | Arterivirus | 1:200 | 1:200 |
| Swine fever - (Hog Cholera) | Togavirus | 1:100 | 1:180 |
| Porcine parvovirus | Parvovirus | 1:200 | Not Effective |
| Rabies | Rhabdovirus | 1:190 | 1:150 |
| Swine Vesicular Disease | Picornavirus | 1:250 | 1:600 |
| Foot & Mouth disease | Picornavirus | 1:80 | 1:550 |
| Transmissible Gastroenteritis (T.G.E.) | Coronavirus | N/T | 1:50 |
| FUNGAL DISEASE | | | |
| Piglet diarrhoea | Candida albicans | 1:100 | 1:50 |

N/T - Not Tested



Established in 1919, Evans Vanodine International PLC is based in Preston, Lancashire, where the company's modern 100,000 square foot factory includes extensive manufacturing and warehousing facilities and stands on a site of 5 acres.



Dedication to total quality management was recognised in 1990, when the company was awarded British Standard 5750 Part 2: 1987, Certificate No. 09535. This is now known as BS EN ISO 9001:2000.

Working within the company's modern research, Quality Assurance and Microbiology Laboratories, highly qualified and experienced staff have the most advanced analytical instrumentation at their disposal, which contributed to the Microbiology Laboratory being awarded a national accreditation (UKAS) for Disinfectant Testing No. 1108.

Raw materials are quality approved before manufacture, while product batch samples are kept in storage for up to 4 years. Advanced production facilities involve the use of 10,000 and 12,000 litre stainless steel, polyethylene and pressurised tanks, together with automatic 500ml, 750ml, 1 litre and 5 litre six-head filling and capping line. This ensures that substantial quantities of products are always in stock.

The company's own fleet of commercial vehicles, all of which have a tail lift for easy off-loading, guarantee a fast, reliable delivery service. Whatever your requirements, you can rest assured that all Evans Vanodine products will arrive safely, in perfect condition and without delay.



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
 e-mail: export@evansvanodine.co.uk - For markets outside the UK
sales@evansvanodine.co.uk - For UK enquiries



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