

Hatchery hygiene programme

Livestock Protection



Evans Vanodine International plc

Exporting to more than 58 countries around the world, Evans Vanodine International have the experience and expertise to offer effective solutions for Biosecurity problems in the hatchery.

- Hygiene products for every application in the hatchery
- Proven effective disinfectants, which meet the latest European Standards

- Cost effective solutions for your hygiene needs
- World wide distribution
- ISO 9002 accredited
- UKAS accredited microbiology testing laboratory
- Quality control and research laboratory
- Manufacturing livestock protection products since 1919



SHIFT Power Cleaning Detergent

- Alkaline detergent for use through pressure washing equipment
- Suitable for use in hard or soft water
- Suitable for removal of heavy soiling
- Can also be used for soak cleaning if required
- Low cost in use



VANOQUAT® Disinfectant

- Powerful quaternary based disinfectant
- Passes European Standard EN 1276
- Effective against a range of disease causing bacteria
- Can be used manually or through pressure washing and spraying equipment
- Can be used as a terminal disinfectant after pre cleaning has taken place
- Safe on soft metals and surfaces



GPC8™ Disinfectant

- DEFRA approved disinfectant based on glutaraldehyde and QAC
- Passes European Standard EN 1656
- Patented formula
- Bactericidal, Fungicidal and Virucidal
- Non-staining and active in the presence of organic matter
- Prolonged residual activity



VANODOX® FORMULA Disinfectant

- Hydrogen Peroxide / Peracetic Acid based formulation
- Bactericidal, Fungicidal and Virucidal
- Effective against the spores of Aspergillus species
- Very low dilution rates and excellent cost in use
- Passes European Standard EN 1656 and EN 1657



TRAYWASH™ Low Foam Detergent

- For use in automatic traywashing machines
- Non corrosive
- Removes heavy proteinaceous soiling
- Cost effective
- Can be auto dosed
- Safe aluminium



FAM® 30 Multi-Purpose Iodophor Disinfectant

- DEFRA approved disinfectant
- Passes European Standard EN 1656
- Bactericidal, Fungicidal and Virucidal
- Active in the presence of organic matter
- Colour coded: colour fades as iodine diminishes



HANDSAN Rapid Drying Skin Disinfectant

- Alcohol based post hand wash skin disinfectant
- Contains emollients to keep skin in good condition
- Simple to use, no towels needed
- Fast drying
- Convenient 500ml portable dispenser
- Passes European Standard EN 1656

Evans Vanodine International

Hatchery hygiene programme

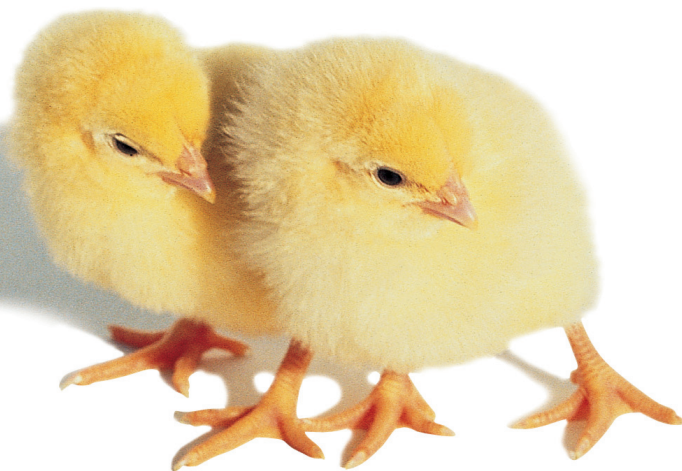
An effective hygiene programme is essential in the hatchery to prevent cross contamination and enable efficient production of healthy chicks.

A major source of contamination within the hatchery is poor sanitary condition of the eggs on arrival. Dirty eggs should not be set.

Contamination of the hatchery can also occur from the immediate environment, spread of viruses has been recorded from vehicles

Contamination can occur from areas in the hatchery where dust and dirt accumulate e.g. spaces between, behind and on top of incubators, air handling units, etc.

Cross contamination from the reception area to the incubators via the ventilation system, equipment or personnel can be prevented by good design, management and implementation of a biosecurity programme incorporating a hatchery specific hygiene programme.



Hatchery hygiene programme

Stage 1 Egg reception area/tray room

Hatchery sequence	Eggs transferred to setters, egg reception and/or tray room empty
Equipment	Power washer, foaming lance, brushes. Clean and disinfect after use and store in a clean area.
Procedure	Remove any waste before cleaning.
Surfaces Tables, floors, walls	<ol style="list-style-type: none"> 1. Clean using foam SHIFT 1:50 or liquid application of SHIFT 1:200 2. Rinse with clean water 3. Disinfect using VANOQUAT at 1:100 4. Fog using GPC8 or VANODOX FORMULA at 1:50
Application rate	SHIFT 100 litres solution per 100 m ² Apply foam @ 250 m ² /min VANOQUAT 30 litres per 100 m ²
Personnel	Wash hands/forearms with bactericidal soap and/or use hygienic hand rub HANDSAN



Stage 2 Setters

Hatchery sequence	in "all in all out" system setters empty every 18 days In corridor setters empty at regular intervals
Equipment	Power washer, foaming lance. Clean and disinfect after use and store securely.
Surfaces Interior surfaces of setters	<ol style="list-style-type: none"> 1. Clean using foam SHIFT 1:50 or liquid application of SHIFT 1:200 2. Disinfect using VANOQUAT at 1:100 3. Periodic fogging with VANODOX FORMULA or GPC8 at 1:50
Application rate	SHIFT 100 litres solution per 100 m ² Apply foam @ 250 m ² /min VANOQUAT 30 litres per 100 m ²
Personnel	Wash hands/forearms with bactericidal soap and/or use hygienic hand rub HANDSAN



Stage 3 Candling room/Transfer room

Hatchery sequence	Non fertile eggs removed, fertile eggs returned to hatcher. Eggs transferred to hatcher trays
Equipment	Power washer, foaming lance, brushes. Clean and disinfect after use and store securely.
Procedure	Remove infertile eggs
Surfaces Tables, candling and/or transfer machines	<ol style="list-style-type: none"> 1. Clean using foam SHIFT 1:50 or liquid application of SHIFT 1:200 2. Disinfect using VANOQUAT at 1:100 or VANODOX FORMULA at 1:50 if Aspergillus spores have been detected 3. Fogging with VANODOX FORMULA at 1:50 may be valuable in controlling mould growth
Application rate	SHIFT 100 litres solution per 100 m ² Apply foam @ 250 m ² /min VANOQUAT / VANODOX FORMULA 30 litres per 100 m ²
Personnel	Wash hands/forearms with bactericidal soap and/or use hygienic hand rub HANDSAN



Stage 4 Hatcher

Hatchery sequence	Chicks hatch and are moved out of the hatchery
Equipment	Power washer, foaming lance, brushes. Clean and disinfect after use and store securely.
Surfaces Tables, candling and/or transfer machines	<ol style="list-style-type: none"> 1. Clean using foam SHIFT 1:50 or liquid application of SHIFT 1:200 2. Disinfect using VANOQUAT at 1:100 or VANODOX FORMULA at 1:50 if Aspergillus spores have been detected 3. Periodic fogging with VANODOX FORMULA or GPC8 at 1:50
Application rate	SHIFT 100 litres solution per 100 m ² Apply foam @ 250 m ² /min VANOQUAT / VANODOX FORMULA 30 litres per 100 m ²
Personnel	Wash hands/forearms with bactericidal soap and/or use hygienic hand rub HANDSAN



Stage 5 Fumigation

Hatchery sequence	Before transport to the setters or at hatcher
Surfaces Eggs	Formaldehyde 38%
Personnel	No contact with fumigant

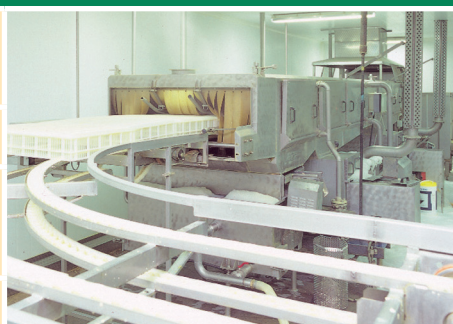
Stage 5 Chick separator/sexing/vaccination/counting/boxing

Hatchery sequence	Chicks separated from shell and hatch debris, sexed, counted, vaccinated, boxed and distributed to customers or farms
Equipment	Power washer, foaming lance, brushes. Clean and disinfect after use and store securely.
Procedure	Remove debris, vacuum
Surfaces Tables, conveyor belts	<ol style="list-style-type: none"> 1. Clean using foam SHIFT 1:50 or liquid application of SHIFT 1:200 2. Disinfect using VANOQUAT at 1:100 or VANODOX FORMULA at 1:50 if <i>Aspergillus</i> spores have been detected 3. Periodic fogging with VANOQUAT or GPC8 at 1:50
Application rate	SHIFT 100 litres solution per 100 m ² Apply foam @ 250 m ² /min VANOQUAT / VANODOX FORMULA 30 litres per 100 m ²
Personnel	Wash hands/forearms with bactericidal soap and/or use hygienic hand rub HANDSAN



Stage 6 Tray washer

Hatchery sequence	Used setter and hatcher baskets returned for cleaning and disinfection
Equipment	Automatic washing machine
Surfaces Trays, baskets, washing machine stacker, tipper	Use with TRAYWASH at a 1% dilution
Application rate	See washing machine instructions



Vehicle cleaning and disinfection

Hatchery sequence	Vehicle used to deliver eggs, supplies, collect chicks or waste
Equipment	Power washer, wheel baths
Chassis and exterior Interior Wheel Baths	<ol style="list-style-type: none"> 1. Clean with SHIFT at 1:200 2. Disinfect with VANOQUAT 1:100 3. Use FAM 30 at 1:180
Application rate	SHIFT 100 litres solution per 100m ² VANOQUAT 30 litres per 100m ²



Quality Assurance

It is important to ensure that the hatchery hygiene programme is being adhered to at all times. Correct preparation of disinfectant dilution is important to ensure efficient use of products. Evans Vanodine have a number of user friendly systems for checking the dilution of disinfectant solutions.

The following test strips are available

- FAM 30 test strips
- GPC8 test strips
- VANODOX FORMULA test strips
- VANOQUAT test strips

An easy to read colour change confirms that the correct dilution has been prepared.

The use of test strips can easily be incorporated into the hatchery quality control procedures



Fam 30 Test Strips		
USE DILUTIONS		COLOUR OF STRIP
Litres	Litres Water	
1	2500	
1	1500	
1	600	
1	400	
1	300	
1	125	

Fam 30 Test Strips		
USE DILUTIONS		COLOUR OF STRIP
Litres	Litres Water	
1	200	
1	100	
1	80	
1	50	

Volumes required for correct dilutions					
FAM 30		Water		Total volume	Dilution
222ml	+	39.8 litres	=	40 litres	1:180
GPC8		Water		Total volume	Dilution
800ml	+	39.2 litres	=	40 litres	1:50
SHIFT		Water		Total volume	Dilution
800ml	+	39.2 litres	=	40 litres	1:50
200ml	+	39.8 litres	=	40 litres	1:200
VANODOX FORMULA		Water		Total volume	Dilution
800ml	+	39.2 litres	=	40 litres	1:50
VANOQUAT		Water		Total volume	Dilution
400ml	+	39.6 litres	=	40 litres	1:100

Evans Technical Support and Advice

In addition to the supply of a complete range of chemical products EVANS VANODINE INTERNATIONAL PLC offers a variety of training and technical manuals and provides information and instructions for your staff, explaining the most up to date and efficient methods of cleaning and disinfection in the hatchery

Your local EVANS VANODINE representatives and members of the international sales team are available to answer your questions and will offer you the technical support you expect from an international supplier.

Safety data sheets are available for all Evans Vanodine cleaning and disinfection products and full details can be supplied upon request.

Technical Manuals



Evans Vanodine International plc

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.

Production facilities include stainless steel, polyethylene and pressurised blending vessels, having capacities of up to 12,000 litres, with filling capabilities in all sizes from as little as 0.5 up to 200 litres.

Raw materials and packaging items are approved for quality before use. Each batch of product is positively released for filling, and subsequent checks are performed during filling. Finished product samples are retained for up to five years ensuring complete traceability through the product shelf life



and beyond. This commitment to quality assurance was recognised in 1990 when the company was awarded British Standard 5750 Part 2: 1987, Certificate No. FM 09535. This is equivalent to International Standard BSEN ISO 9002: 1994.

This is complemented by highly qualified and experienced product development chemists and microbiologists using up to date equipment and protocols in a laboratory facility which holds UKAS accreditation for the testing of disinfectants.



Whatever your requirements, wherever you need them, you can rest assured that all Evans Vanodine products will arrive safely, in perfect condition and without delay.

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