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# EVANS VANODINE HATCHERY HYGIENE PROGRAMME





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# INTRODUCTION AND PRODUCTS

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. Therefore, dirty eggs should not be set.

Contamination of the hatchery can also occur from the immediate environment e.g. before the spread of viruses has been recorded from vehicles.

Contamination can occur from areas in the hatchery where dust and dirt accumulate e.g. in 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.

## HANDSAN™ 70% Alcohol-based hand disinfectant



5l 500ml

- Authorised Biocide.
- Bactericidal, virucidal and yeasticidal. Passes EN\* 1500, EN 13727 and EN 1276 with a 30 second contact time.
- Passes EN 14476 against enveloped viruses, including Coronavirus, with a 1 minute contact time.
- Added moisturiser to protect the skin.
- Evaporates from hands without leaving a residue.
- Ideal where soap and water are not readily available.

## FAM® 30 Iodophor disinfectant; BPR Approved



1000 l  
25 l 200 l

- Authorised Biocide.
- Passes EN 1656, EN 1657, EN 14349 and EN 14675.
- Bactericidal, virucidal and yeasticidal.
- Active in the presence of organic matter.
- Extremely powerful and fast acting.
- Cleans and disinfects in one operation.
- Colour coded; colour fades as iodine diminishes.
- Biodegradable and stable.

## GPC8™ Glutaldehyde-based disinfectant



200 l  
5 l 25 l

- Powerful disinfectant which offers protection from a wide range of disease causing micro-organisms.
- Passes EN 1656, EN 1657, EN 14349 and EN 14675.
- Bactericidal, virucidal and yeasticidal.
- Active in the presence of organic matter.
- Suitable for livestock housing and associated equipment, as part of a biosecurity programme.
- Non-staining.
- Rapid killing action. Pro-longed residual activity.

## VANODOX® FORMULA Peracetic acid-based disinfectant



5 l 20 l

- Broad spectrum disinfectant.
- Passes EN 1656, EN 1657 and EN 14675.
- Bactericidal, virucidal and yeasticidal.
- Contains hydrogen peroxide and peracetic acid.
- Ideal for intensive housing and for the general disinfection of broiler houses.
- Effective against the spores of Aspergillus species.
- Biodegradable and non-staining.
- Very low dilution rate; excellent cost in use.

## VANOQUAT® Formulated quaternary disinfectant



25 l

- Effective against a range of disease causing bacteria. Can be used as a terminal disinfectant after pre-cleaning has taken place.
- Passes EN 1276 and EN 1650.
- Can be used manually or through pressure washing and spraying equipment.
- Safe on soft metals and surfaces.

## ALU SAFE TRAY WASH Low foam detergent



5 l 20 l

- For use in automatic tray washing machines.
- Non-corrosive, safe on aluminium.
- Removes heavy proteinaceous soiling.
- Cost effective.
- Can be used through automatic wash machines and for manual soaking, in all water conditions.

## SHIFT™ Heavy-duty power wash liquid



5 l 25 l

- Powerful, heavy duty, concentrated alkaline detergent, for use with all types of high or low pressure machines or via foam.
- Rapidly penetrates and removes organic soiling.
- Suitable for cleaning floors, walls, ceilings equipment, buildings and vehicles.
- Can also be used for soak cleaning if required.
- Mixes readily with water.

# CLEANING AND DISINFECTION STAGES

## STAGE ONE - EGG RECEPTION AREA / TRAY ROOM

<b>Hatchery Sequence</b>	Eggs transferred to setters. Egg reception and/or traying room emptied.
<b>Equipment</b>	Power washer, foaming lance, brushes. Clean and disinfect after use and store in a clean area. Appropriate Personal Protective Equipment (PPE) must be worn.
<b>Procedure</b>	Remove any waste before cleaning.
<b>Surfaces</b> (Tables, floors, walls)	<ol style="list-style-type: none"> <li>1. Clean using <b>SHIFT™</b> foam application at 1:150</li> <li>2. Rinse with clean water to remove any remaining debris.</li> <li>3. Disinfect using <b>VANOQUAT®</b> at 1:100.</li> <li>4. Fog weekly using <b>GPC8™</b> or <b>VANODOX® FORMULA</b> at 1:50.</li> </ol>
<b>Application Rate</b>	<p><b>SHIFT™</b> 100 litres solution per 100m<sup>2</sup> Apply as a foam.</p> <p><b>VANOQUAT®</b> 30 litres solution per 100m<sup>2</sup> Apply as a spray.</p>
<b>Personnel</b>	Wash hands and forearms with bactericidal soap and/or use alcohol hand disinfectant <b>HANDSAN™</b> .



## STAGE TWO - SETTERS

<b>Hatchery Sequence</b>	In “all in all out” system setters, empty every 18 days. In corridor setters, empty at regular intervals.
<b>Equipment</b>	Power washer, foaming lance. Clean and disinfect after use and store securely in a clean area. Appropriate PPE must be worn
<b>Surfaces</b> (Interior surfaces of setters)	<ol style="list-style-type: none"> <li>1. Clean using <b>SHIFT™</b> foam application at 1:150</li> <li>2. Rinse with clean water to remove any remaining debris.</li> <li>3. Disinfect using <b>VANOQUAT®</b> at 1:100.</li> <li>4. Fog weekly with <b>VANODOX® FORMULA</b> or <b>GPC8™</b> at 1:50</li> </ol>
<b>Application Rate</b>	<p><b>SHIFT™</b> 100 litres solution per 100m<sup>2</sup> Apply as a foam.</p> <p><b>VANOQUAT®</b> 30 litres solution per 100m<sup>2</sup> Apply as a spray.</p>
<b>Personnel</b>	Wash hands and forearms with bactericidal soap and/or use alcohol hand disinfectant <b>HANDSAN™</b> .





### STAGE THREE - CANDLING ROOM / TRANSFER ROOM

<b>Hatchery Sequence</b>	Non-fertile eggs removed, fertile eggs returned to hatcher Eggs transferred to hatcher trays
<b>Equipment</b>	Power washer, foaming lance, brushes Clean and disinfect after use and store securely Appropriate PPE must be worn
<b>Procedure</b>	Remove infertile eggs
<b>Surfaces</b> (Tables, floors,walls)	<ol style="list-style-type: none"> <li>1. Clean using foam <b>SHIFT™</b> 1:150</li> <li>2. Rinse with clean water to remove any remaining debris.</li> <li>3. Disinfect using <b>VANOQUAT®</b> at 1:100 or <b>VANODOX® FORMULA</b> at 1:25 if Aspergillus spores have been detected.</li> <li>4. Fogging with <b>VANODOX® FORMULA</b> at 1:25 may be valuable in controlling mould growth.</li> </ol>
<b>Application Rate</b>	<b>SHIFT™</b> 100 litres solution per 100m <sup>2</sup> Apply as a foam. <b>VANOQUAT® / VANODOX® FORMULA</b> 30 litres solution per 100m <sup>2</sup> Apply as a spray.
<b>Personnel</b>	Wash hands and forearms with bactericidal soap and/or use alcohol hand disinfectant <b>HANDSAN™</b> .



### STAGE FOUR - HATCHER

<b>Hatchery Sequence</b>	Chicks hatch and are moved out of hatchery.
<b>Equipment</b>	Power washer, foaming lance, brushes. Clean and disinfect after use and store securely. Appropriate PPE must be worn.
<b>Surfaces</b> (Tables, candling and/or transfer machines)	<ol style="list-style-type: none"> <li>1. Clean using <b>SHIFT™</b> foam application at 1:150.</li> <li>2. Rinse with clean water to remove any remaining debris.</li> <li>3. Disinfect using <b>VANOQUAT®</b> at 1:100, or <b>VANODOX® FORMULA</b> at 1:25 if Aspergillus spores have been detected.</li> <li>4. Periodic fogging with <b>VANODOX® FORMULA</b> or <b>GPC8™</b> at 1:50.</li> </ol>
<b>Application Rate</b>	<b>SHIFT™</b> 100 litres solution per 100m <sup>2</sup> Apply as a foam. <b>VANOQUAT® / VANODOX® FORMULA</b> 30 litres solution per 100m <sup>2</sup> Apply as a spray.
<b>Personnel</b>	Wash hands and forearms with bactericidal soap and/or use alcohol hand disinfectant <b>HANDSAN™</b> .



### STAGE FIVE - FUMIGATION


<b>Hatchery Sequence</b>	Before transport to the setters or at hatcher.
<b>Surfaces (Eggs)</b>	Formaldehyde 38%.
<b>Personnel</b>	No contact with fumigant.

# CLEANING AND DISINFECTION STAGES

## STAGE SIX - CHICK SEPARATOR / SEXING / VACCINATION / COUNTING / BOXING

<b>Hatchery Sequence</b>	Chicks separated from shell and hatch debris, sexed, counted, vaccinated, boxed and distributed to customers or farms.	
<b>Equipment</b>	Power washer, foaming lance, brushes and vacuum. Clean and disinfect after use and store securely. Appropriate PPE must be worn.	
<b>Procedure</b>	Remove debris, vacuum.	
<b>Surfaces</b> (Tables, conveyor belts)	<ol style="list-style-type: none"> <li>1. Clean using <b>SHIFT™</b> foam application at 1:150.</li> <li>2. Rinse with clean water to remove any remaining debris.</li> <li>3. Disinfect using <b>VANOQUAT®</b> at 1:100 or <b>VANODOX® FORMULA</b> at 1:25 if Aspergillus spores have been detected.</li> <li>4. Periodic fogging with <b>VANODOX® FORMULA</b> or <b>GPC8™</b> at 1:50.</li> </ol>	
<b>Application rate</b>	<p><b>SHIFT™</b> 100 litres solution per 100m<sup>2</sup> Apply as a foam.</p> <p><b>VANOQUAT®</b> 30 litres solution per 100m<sup>2</sup> Apply as a spray.</p>	
<b>Personnel</b>	Wash hands and forearms with bactericidal soap and/or use alcohol hand disinfectant <b>HANDSAN™</b> .	

## STAGE SEVEN - TRAY WASHER

<b>Hatchery Sequence</b>	Used setter and hatcher baskets returned for cleaning and disinfection.	
<b>Equipment</b>	Automatic washing machine.	
<b>Surfaces</b> (Trays, baskets, washing machine stacker, tipper)	Use <b>ALU SAFE TRAY WASH</b> at a 0.5 - 1.0% dilution through automatic dosing equipment.	
<b>Temperature</b>	Refer to washing machine instructions.	

## STAGE EIGHT - VEHICLE CLEANING AND DISINFECTION

<b>Hatchery Sequence</b>	Vehicle used to deliver eggs, supplies, collect chicks or waste.
<b>Equipment</b>	Power washer, wheel baths.
<b>Chassis &amp; Exterior Interior</b> <b>Tyre Baths &amp; Wheels</b>	<ol style="list-style-type: none"> <li>1. Clean with <b>SHIFT™</b> at 1:250.</li> <li>2. Disinfect with <b>VANOQUAT®</b> 1:100.</li> <li>3. Use <b>FAM® 30</b> at 1:100.</li> </ol>

# 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 kits/strips are available:

- **FAM® 30** test kit
- **GPC8™** test kit
- **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 kits/strips can easily be incorporated into the hatchery quality control procedures.



GPC8™ TEST STRIPS		
USE DILUTIONS		COLOUR OF STRIP
Litres GPC8	Litres Water	
1	200	Yellow
1	100	Light Green
1	80	Green
1	50	Dark Green

VOLUMES REQUIRED FOR CORRECT DILUTIONS				
FAM® 30		WATER		DILUTION
400ml	+	40 litres	=	1:100
GPC8™		WATER		DILUTION
800ml	+	40 litres	=	1:50
SHIFT™		WATER		DILUTION
267ml	+	40 litres	=	1:150
160ml	+	40 litres	=	1:250
VANODOX® FORMULA		WATER		DILUTION
1600ml	+	40 litres	=	1:25
800ml	+	40 litres	=	1:50
VANOQUAT®		WATER		DILUTION
400ml	+	40 litres	=	1:100



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## AUTHORISED BIOCIDES:

Fam <sup>®</sup> 30	UK-2019-1179-02
Handsan <sup>™</sup>	UK-2019-1195-0001

In the UK **VANODOX<sup>®</sup> FORMULA** is approved by DEFRA under The Diseases of Animals Act for use in the event of a notifiable disease outbreak at the following dilutions:

Diseases of Poultry order	1:145
Foot and Mouth order	1:800
General orders	1:256
Swine Vesicular order	1:25

In the UK **GPC8<sup>™</sup>** is approved by DEFRA under The Diseases of Animals Act for use in the event of a notifiable disease outbreak at the following dilutions:

Diseases of Poultry order	1:50
Foot and Mouth order	1:80
General orders	1:44

**FAM<sup>®</sup> 30** is authorised under The European Biocidal Products Regulation for specific uses at a dilution of 1:100.

In the UK **FAM<sup>®</sup> 30** is approved by DEFRA under The Disease of Animals Act for use in the event of a notifiable disease outbreak at the following dilutions:

Diseases of Poultry order	1:100
Foot and Mouth order	1:550
General orders	1:49
Swine Vesicular order	1:100
Tuberculosis order	1:20

