

Hatchery Sanitation Program





Synergize® Disinfectant

Use for all areas and equipment within the hatchery, including hatchers, setters, chick processing equipment, tray wash machines, transport vehicles (chick and egg transport), and fogging all hatchery rooms, except egg holding room (see Peraside™ under Miscellaneous Applications). Neogen® provides proportioning equipment to accurately maintain proper dilutions.*



Chlorinated Tray Wash EVO

Liquid tray, rack, box, and buggy wash compound. Injected into reservoir tank through an automatic Chemical Injection System (Supplied by Neogen). This injection system will maintain the proper amount of chemical in the tank to ensure optimal performance and reduce chemical waste.



Chlor-A-Foam™ EVO

Chlor-A-Foam™ is used for all foam cleaning applications throughout the hatchery. It is used on all hatchery equipment and in all rooms prior to the application of disinfectant. Ideal for use in hatchers, setters, hallways, walls, floors, vents, processing rooms, tray washrooms, etc. Neogen supplies proportioning equipment to accurately dispense chemicals.



Acid-A-Foam™ EVO

Acid-A-Foam EVO is recommended for intermittent (1x-2x per month) use throughout the hatchery to remove scale and hard water build-up from a wide variety of surfaces. It is ideally suited for use in hatchers, setters, trays, buggies, chick boxes, processing equipment, etc.



Acid Tray Wash EVO

For the periodic descaling of heating coils and spray nozzles in tray wash machines. Over time, water hardness will cause scale build-up on heating coils and clog spray nozzles. Descaling coils and nozzles will improve overall performance of tray wash machine.

When descaling is required, follow these recommended procedures:

1. Fill washer with fresh water to a level just above the coils
2. Add four (4) to eight (8) gallons of Acid Tray Wash
3. Run washer for about 45 minutes
4. Drain tank and refill with fresh water
5. Run for 10-15 minutes
6. Drain tank

The Use of PPE

The use of Personal Protective Equipment (PPE) is required during the handling, mixing, spraying, or foaming of all products recommended for use in the Neogen Hatchery Sanitation Program. **By weighing the inherent safety benefits against the potential dangers, we can change the culture and the mindset of chemical handling.**

PPE includes, but are not limited to:

1. Personnel handling or applying chemicals should wear chemical resistant gloves and aprons. Nitrile, PVC/vinyl, or neoprene/rubber are recommended.
2. Personnel handling or applying chemicals should wear face and eye protection. Goggles or face shields with side protection are recommended to protect against accidental splashing when mixing or spraying chemicals.
3. Personnel handling or applying chemicals should wear appropriate water/chemical resistant footwear. Neoprene/rubber are recommended.

Critical Fogging Times in the Hatchery

Setter and hatch halls should be fogged with Synergize Disinfectant immediately after transfer is complete, and immediately after the post hatch clean-up process is completed. These are critical times, as large amounts of contamination have been spread during these procedures.

Hatcher and setter hallways should be fogged on a routine schedule, no less than two (2) times during a 24-hour period. Note: Rooms fogged with Synergize Disinfectant can be re-entered 10-25 minutes after fogging has been completed. This brief re-entry period is unique to Synergize.

If a room does require entry during the fogging procedure, personnel entering room **MUST** wear proper PPE outlined on the Synergize label.

Other areas of the hatchery such as chick processing rooms, tray washrooms, farm rack storage, chemical storage room, etc., should be fogged once (1x) daily.

Egg Room Fogging with AquaPrime® Peraside 15™



AquaPrime® Peraside 15™ is generally recommended for fogging egg rooms once daily, typically at night after all eggs are collected and placed in the egg room. Fogging can be done using portable foggers, drum mount foggers, or central fogging systems. NO ONE should enter the room while AquaPrime® Peraside 15™ is being fogged or while fog is visible unless proper PPE is used, however AquaPrime® Peraside 15™ does have a zero (0) minute reentry time after the fog has visibly settled.

Chemical Storage Room

1. Remove and discard all partial or open drums which are not presently being used or cannot be identified.
2. Make certain all drums are closed tightly when not in use. This will prevent contamination of products while eliminating chemical waste.
3. Neogen can provide drum-mount proportioners to accurately dispense proper dilutions of Chlor-A-Foam EVO and Synergize Disinfectant into hatchery foaming equipment. Maintain a permanent non-leaking active water hose or water line for each drum-mount proportioner. These drum-mount proportioners are fine-threaded and will screw directly into the bung opening on 55-gallon drums.

Foaming Applications:*

1. Synergize Disinfectant and Chlor-A-Foam EVO should be applied through a compressed-air portable foamer. A dedicated foamer should be used for each product.
2. For maximum contact time, foam hatcher cabinets and rooms from the bottom-up, starting with the base of the wall and moving upward.
3. After cleaning with Chlor-A-Foam EVO, apply Synergize Disinfectant to all surfaces and allow to dry. DO NOT RINSE after this application.
4. These procedures apply to all areas and equipment in the hatchery to be cleaned and disinfected, including hatch cabinets and hallways, processing room, tray washroom, etc.

Further Cleaning and Disinfecting SOP's*

1. Automatic chemical injection systems will provide consistent cleaning and accurate chemical usage. These systems will be provided by Neogen.
2. Temperatures in the tray, rack, box, and buggy washers should be maintained at 130°-140°F. Excessively high water temperatures of 145°F and above are not necessary to achieve clean trays. In fact, these temperatures can bake proteins and organic matter onto trays, racks, boxes, and buggies during the wash process.
3. The most effective cleaning takes place when machines are checked weekly to ensure all nozzles are operational and correctly positioned for optimal contact with trays, racks, boxes, and buggies.

Sanitizing Dip Tank at End of Tray Washer

Install a vertical float valve to control the dip tank water level. A chemical injection pump provided by Neogen will accurately inject the recommended dilution of Synergize Disinfectant* during the tank-filling process and keep disinfecting solution consistent throughout the tray-washing process. This will eliminate manual dispensing of chemicals.

It is recommended to empty and refill the dip tank every three (3) hours of operation.



Hatcher Cleaning Procedures

1. Cleaning should not begin until most, or all, of the chicks have been pulled from the hatchers. This will prevent recontamination of cleaned hatchers while pulling from others.
2. Using a low-pressure water hose or portable foamer, lightly coat hatch debris on hatcher floor with Chlor-A-Foam EVO. This will tamp down contaminated debris so it can be removed manually (shovel) without becoming airborne.
3. Do not dry-sweep or pressure wash debris into the hallway. This will result in contaminated debris becoming airborne and contaminating previously cleaned hatchers as well as the hatchery ventilation system.
4. Rinse walls and floors of the hatcher.
5. Apply Chlor-A-Foam EVO with a portable foamer, starting from the floor and base of walls, working upwards towards ceiling of hatcher. Allow ten (10) minutes contact time before pressure washing.
6. Scrub and scrape any areas requiring additional manual cleaning.
7. Make certain to address all hard to reach areas of the hatcher, including the underside of fan towers, fan blades, etc.
8. Rinse Chlor-A-Foam EVO from hatcher.
9. Squeegee excess water from floor of the hatcher.

Disinfecting Procedures*

1. After cleaning is complete, fill foaming equipment with properly diluted disinfecting solution by rolling foamer to drum of disinfectant and use drum-mount proportioner to fill reservoir tank on foamer. The use of foaming equipment yields three (3) benefits:
 - a- Foam increases contact time with surfaces, providing more contact with pathogens and providing optimal germicidal activity.
 - b- Foam is visible. If you don't see any foam on a surface, you can assume that the surface has not been disinfected.
 - c- Foam eliminates aerosolization of chemical solution. This creates a more staff-friendly environment and encourages conscientious application.
2. Foam all surfaces with disinfecting solution, making sure to pay close attention to hard-to-reach areas like fan blades.
3. Allow to air-dry. NO RINSE NECESSARY.

Miscellaneous Applications

Fog chick busses and transfer trucks after each load of chicks/eggs with Synergize Disinfectant, using the formula: **One (1) minute fogging per 1,000³ cu. ft.**



COMPANION™ Hand Sanitizer
Between handling groups of chicks/eggs. This will help break the cycle of cross-contamination.



COMPANION™ Disinfecting Wipes
Wipe down steering wheels, gear shifters, and dashboards between loads of chicks/eggs.*



BioSentry® BioPhene™ Spray Disinfectant
Disinfect brake and accelerator pedals, floor mats, and cab interiors between loads of chicks/eggs.*



Dyno-O-Might® Disinfectant for Foot Baths*
Dyne-O-Might's ability to remain active in heavy organic soil makes it ideally suited for this application.

**Read these products' entire labels and follow all use directions, use restrictions and precautions. Use only for the sites, pests, and application methods described on the product labels. It is a violation of Federal law to use these products in a manner inconsistent with their labeling.*



Neogen Corporation, 620 Leshler Place, Lansing, MI 48912 USA.

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