

Synergize® Cleaner • Disinfectant

Neogen®

STAPHLOCIDAL* • PSEUDOMONACIDAL* • VIRUCIDAL* • FUNGICIDAL • BACTERICIDAL*

*See Directions for Use for list of approved organisms

Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine-Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premises, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

Active Ingredients:

Alkyl (C12 67%, C14 25%, C16 7%, C18 1%)	
dimethyl benzyl ammonium chloride	26.00%
Glutaraldehyde	7.00%
Inert Ingredients:	<u>67.00%</u>
Total	100.00%

Keep Out Of Reach Of Children

DANGER

See inside leaflet for First Aid and complete Directions for Use

DESCRIPTION

Synergize is a multi-purpose disinfectant-cleaner. **Synergize** provides a broad spectrum kill of gram negative and gram positive microorganisms. **Synergize** provides effective disinfecting and cleaning in one operation. **Synergize** is effective in warm, soft or hard water (as much as 1,000 ppm CaCO₃) and performs especially well in areas containing 5% serum.

Synergize is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, sealed fiberglass, Viton, ethylene propylene, nitrile, acrylic and polyurethane.

Directions For Use:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

Use Directions:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks and garbage cans in non-animal areas associated with the sites noted on this label. Apply a solution of ½ ounce **Synergize** per gallon of water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

Boot/Shoe Wash: To prevent cross contamination into animal areas, shoe baths containing one inch of freshly made disinfecting solution must be placed at all entrances to buildings. Scrape waterproof shoes or boots and place in a ½ ounce **Synergize** per gallon of water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

Vehicles: to disinfect the non-porous, hard surfaces of vehicles use a solution of ½ ounce **Synergize** per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more, and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

Directions For Use In Swine-Producing Facilities:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked-on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate with a solution of ½ ounce **Synergize** per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in **Synergize** at a dilution of 1:256.
- 8) Allow to remain in contact for 10 minutes.
- 9) Ventilate buildings and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 10) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come into contact with food with soap or detergent, and rinse with potable water before reuse.

Directions For Use In Farm Premises, Equine Facilities, Veal Barns, Ratites Facilities, Calf Pens and Vehicles:

- 1) Do not use in milking stalls, milking parlors, or milk houses.

- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Remove all gross soil, bedding, manure, caked-on dirt, spider webs, etc. from floors, surfaces, and from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by animals.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate with a solution of ½ ounce **Synergize** per gallon of water (1:256), using conventional spraying methods.
- 7) Allow to remain in contact with this solution for at least 10 minutes.
- 8) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing manure in a solution of ½ ounce **Synergize** per gallon of water (1:256).
- 9) Allow to remain in contact for 10 minutes.
- 10) Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried.
- 11) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come into contact with food with soap or detergent, and rinse with potable water before reuse.

Directions For Use In Poultry Houses:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with ½ ounce **Synergize** per gallon of water (dilute 1:256).
- 6) Allow to remain in contact for 10 minutes.
- 7) Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 8) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come into contact with food with soap or detergent, and rinse with potable water before reuse.

Hatchery Rooms, Incubators and Hatchers, Poultry Houses and Livestock Buildings by Fogging:

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is not to be used as a sanitizing treatment. Close room off so fog is confined to room to be treated. Hatchery ventilation systems must remain on during fogging. Wear a dust/mist respirator when mixing the use solution and pouring it into the fogging apparatus.

A) Hatchery Rooms:

Vacate all personnel from hatchery room to be fogged. Close room off so fog is confined to the hatchery room to be treated. Prepare a stock solution of 1 (1) part **Synergize** to forty-two (42) parts water (3 fluid ounces **Synergize** to 125 fluid ounces of water). Fog this solution at a rate of 3.8 ounces per 10,000 cubic feet for the fogging times specified in the chart below. Contact your Preserve International representative to determine the recommended fogging schedule. Do not allow people to breathe or contact the fog. When fogging **Synergize**, re-entry intervals (REI) and personal protective equipment (PPE) are determined by the following hatchery room air exchange rates:

ACH for Hatchery Rooms/ Incubators and Hatchers	Fogging Time	Re-entry Intervals (REI)	PPE Required
8 Air Exchanges Per Hour	5 Minutes	25 Minutes	No PPE Required
12 Air Exchanges Per Hour	7.5 Minutes	15 Minutes	No PPE Required
16 Air Exchanges Per Hour	10 Minutes	10 Minutes	No PPE Required
20 Air Exchanges Per Hour	12.5 Minutes	10 Minutes	No PPE Required
24 Air Exchanges Per Hour	15 Minutes	10 Minutes	No PPE Required

Under no circumstances must the hatchery room be entered by unprotected persons before the listed re-entry intervals. If the hatchery room must be entered, before the listed re-entry intervals, then the individuals entering the room must wear a long-sleeved shirt and pants, and a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

B) Incubators and Hatchers:

Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs. Prepare a stock solution of one (1) part **Synergize** to forty-two (42) parts water (3 fluid ounces **Synergize** to 125 fluid ounces of water). Fog this solution at a rate of 3.8 ounces per 10,000 cubic feet for the fogging times specified in the chart above, into setters and hatchers immediately after transfer. Repeat daily. Discontinue hatcher treatments approximately 24 hours before pulling the hatch. Do not allow people to contact or breathe this fog and do not enter machines until the fog has been exhausted. To do this, install permanent fogging nozzles in setters and hatchers and use an air compressor to disperse the sanitizing solution as a fog. It is also satisfactory to fog setters and hatchers with a 1:1,000 solution of **Synergize**. If this is done, fog for 30-90 seconds once per hour or once every two hours.

C) Poultry Houses and Livestock Buildings:

After the house has been depopulated and cleaned as in “Directions For Use In Farm Premises, Equine Facilities, Veal Barns, Ratites Facilities, Calf Pens and Vehicles”, double check to be sure all people, poultry, livestock and pets have vacated the building. Close all windows, doors, curtains, etc. making the house as closed as possible. Prepare a stock solution of one (1) part **Synergize** to four (4) parts water (3 fluid ounces **Synergize** to 100 fluid ounces of water). Insert the nozzle of the fogging device through a suitable opening in the room. With the setting on maximum output, fog 125 fluid ounces for each 1,000 cubic yards. The fogger itself is placed just inside the door of the building to be treated, or the nozzle of the fogger is inserted through a suitable opening in the door or building. The opening must be large enough to accommodate the nozzle. After fogging, the building must be kept closed for twenty-four (24) hours, the fog must have settled and the house can now be opened and aired. The house must be opened for a minimum of twenty-four (24) hours before it is repopulated with poultry or livestock.

NOTE FOR POULTRY HOUSES AND LIVESTOCK BUILDINGS: The generated fog is very irritating to eyes, skin, and mucous membranes. Under no circumstances must a room or building be entered by anyone until the fog has completely settled. A re-entry time of two (2) hours is required. If the building or room must be entered, then the individuals entering the building or room must wear a self-contained respirator approved by NIOSH, goggles, long-sleeved shirt and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with the treatment, they must be washed with detergent and water before use for poultry or livestock.

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

DANGER

Keep Out Of Reach Of Children. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Wear protective clothing and rugged gloves. Prolonged or frequent repeated skin contact may cause an allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and launder contaminated clothing before reuse.

Environmental Hazards: This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage:

Store away from heat. Do not transfer to another container. Do not reuse empty container.

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or offer for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(For 5 gallons or less) Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Dispose of rinsate as noted in the pesticide disposal section. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

General: Consult Federal, State or local disposal authorities for approved alternative procedures.