GENERAL DESCRIPTION

1-Stroke Environ Germicidal Detergent is a patented detergent-based germicide developed especially to control cross contamination of treated surfaces in the agricultural and food industries, and in the veterinary field. It is intended for use on precleaned hard, nonporous surfaces including floors, walls, counters, equipment in food processing areas, feed racks, troughs and automatic feeders. It may be used in food processing, preparation and service facilities, in animal and avian husbandry, poultry and feed processing facilities, veterinary clinics, animal research facilities and mushroom farms.

FEATURES BENEFITS

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard water effective (400 ppm as CaCO₃)</td>
<td>Disinfection verified in most tap waters</td>
</tr>
<tr>
<td>Advanced phenolic formula kills a range of</td>
<td>Verification of germicidal activity</td>
</tr>
<tr>
<td>gram-positive, gram-negative bacteria and</td>
<td></td>
</tr>
<tr>
<td>acid-fast bacilli. Fungicidal and virucidal</td>
<td></td>
</tr>
<tr>
<td>Formulated with excellent detergent system</td>
<td>Can be used as a cleaner prior to disinfection</td>
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</tbody>
</table>

BACTERICIDAL PROPERTIES

When tested according to Association of Official Analytical Chemists (AOAC) Use-Dilution Testing, 1-Stroke Environ detergent was shown to be effective against the following when diluted 1/2 oz/gal (0.4% v/v) in 400 ppm AOAC hard water and 5% organic soil (serum) in 10 minutes at 20°C (68°F).

- Aeromonas hydrophila ATCC 7965
- Bordatella avium ATCC 35086
- Corynebacterium sepedonicum ATCC 9850
- Klebsiella pneumoniae ATCC 23357
- Mycoplasma gallisepticum ATCC 19610
- Pasteurella multocida ATCC 29977
- Pseudomonas aeruginosa ATCC 13388
- Salmonella enteritidis ATCC 13076
- Salmonella serovar pullorum ATCC 19945

When tested according to AOAC Use-Dilution Testing, 1-Stroke Environ detergent was shown to be effective against the following when diluted 1/2 oz/gal (0.4% v/v) in 400 ppm AOAC hard water in 10 minutes at 20°C (68°F).

- Staphylococcus aureus ATCC 6538
- Salmonella enterica ATCC 10708
- Escherichia coli ATCC 11229
- Streptococcus suis ATCC 43765
- Listeria monocytogenes ATCC 15313
- Campylobacter jejuni ATCC 29428

FUNGICIDAL PROPERTIES

An official test for determining the fungicidal efficacy of a disinfectant is the Fungicidal Test Method as described in the AOAC Methods of Analysis and modified as required by Environmental Protection Agency (EPA) regulations. 1-Stroke Environ concentrate diluted 1/2 oz/gal (0.4% v/v) in 400 ppm (as CaCO₃) hard water is effective against Trichophyton mentagrophytes in 10 minutes at 20°C (68°F).
**VIRUCIDAL PROPERTIES**

1-Stroke Environ detergent has been proven effective against the following viruses when diluted 1/2 oz/gal (0.4% v/v) with 400 ppm hard water in 10 minutes at 20°C (68°F) on inanimate environmental surfaces.

- Adenovirus Type 2
- Herpes simplex Type 2
- Infectious bronchitis
- Infectious laryngotracheitis
- Influenza A₂
- Hog cholera
- Marek's Disease (JM-V)
- Newcastle disease
- Pseudorabies
- Transmissible gastroenteritis
- Avian Reovirus ATCC VR-2040 in the presence of 5% added serum.

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Medium amber liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, pleasant aroma</td>
</tr>
<tr>
<td>Specific gravity (25°C [77°F])</td>
<td>1.07 typical</td>
</tr>
<tr>
<td>pH (concentrate)</td>
<td>12.6 typical</td>
</tr>
<tr>
<td>pH (1:256 dilution)</td>
<td>10.4 typical</td>
</tr>
<tr>
<td>Phosphate</td>
<td>None</td>
</tr>
</tbody>
</table>

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

For use on all non-porous washable, precleaned, hard environmental surfaces, use a 1/2 oz/gal (0.4% v/v). Add concentrate to premeasured volume of water. For accurate solution preparation, use STERIS’s 1-Stroke Dispenser (one stroke delivers 1/2 oz of product). This is a complete product. Do not add other chemicals. Use only as directed. If frozen, thaw and remix before use.

**Cleaning and Disinfecting Animal and Poultry Facilities**

Do not use in milking stalls, milking parlors or milk houses. Always remove gross filth and heavy soil before application of the solutions of this product. Cover or remove all food, feedstuffs, packaging material and animals. Remove all dirt, litter and debris from surfaces to be disinfected. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply use solution with a sponge, mop, cloth or coarse spray to thoroughly wet all surfaces. Allow the surface to remain wet for 10 minutes and remove excess solution with a wrung-out applicator. Discard solutions when they become soiled and replace with a fresh solution of this product. Wash all feeders and waterers with a detergent and rinse with potable water before reuse. Ventilate buildings, coops and other closed spaces. Allow disinfected areas to dry before rehousing livestock.

**Cleaning and Disinfecting Food Contact Surfaces, Tools and Equipment**

Cover or remove all food and packaging materials. Thoroughly clean surfaces to be disinfected before application of the solutions of this product. Apply use solution to the surface being disinfected with a sponge, mop, cloth or coarse spray and allow to remain wet for 10 minutes. Discard soiled solutions and replace with fresh use solutions. Rinse all surfaces with a potable water rinse after disinfection, and allow to air dry before reuse.

**Fogging as an Adjunct to Regular Cleaning and Disinfecting**

This product may be used in fogging (wet misting) as an adjunct either preceding or following regular cleaning and disinfecting procedures in poultry operations, hatcheries, swine operations, animal care facilities, animal research facilities, livestock operations and veterinary facilities, zoos and kennels. Use a 1/2 oz/gal (0.4% v/v) dilution. Fog the desired area at 32 to 64 oz of use dilution per 1000 cubic feet using equipment with an automatic timer. Do not remain in treated areas; allow at least two hours after fogging is complete before re-entering fogged area. Before fogging, remove or carefully protect all food and packaging materials with waterproof coverings. Treated food contact surfaces must be thoroughly scrubbed with 1-Stroke Environ detergent at a 1/2 oz/gal (0.4% v/v) dilution and rinsed with potable water before reuse.

**Mushroom Farm Use**

A normal use-solution (1/2 oz/gal) may be used between crops for cleaning and sanitizing on non-food contact surfaces. Use on tanks, air conditioners, air ducts, fans, and breezeways, compost wharf, concreted surfaces, inside and outside walls of mushroom houses, lofts, floors, spawning machines, tampers, casing rings, storage sheds and track alleys before spawning. Thoroughly clean all surfaces with soap or detergent and rinse with water; apply use-dilution with a cloth, sponge, mop or coarse spray to thoroughly wet all surfaces; allow to remain wet for 10 minutes. Apply ONLY to surfaces that do not come in contact with the crop. Do not apply to the crop, compost or casings.
STORAGE AND DISPOSAL

Storage
Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty containers. This product should be stored in an area where it is not exposed to extreme temperatures.

Disposal
This germicide, its solutions or rinsings from empty containers, should be disposed of in a toilet or service sink served by a sanitary sewer, or in a landfill approved for pesticides. Triple rinse and deposit in a waste container for incineration, or in a landfill approved for pesticide containers. Consult federal, state or local disposal authorities for approved alternative procedures, such as limited open burning.

SERVICE

Sales
Service is one of the most important ways to verify consistent quality of the facility’s performance and operation. A tailored service program by STERIS provides effective, trouble-free operations.

Technical
STERIS is pleased to provide a completely staffed and equipped technical service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. More details on how this service can benefit a facility’s particular situation can be provided upon request.

PRECAUTIONS

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet (MSDS) for the product. For additional information regarding incidents involving human and environmental exposure, call 1-314-535-1395.