

GENERAL DESCRIPTION

Environ Vesphene st Sterile Phenolic Disinfectant is an alkaline phenolic germicidal disinfectant designed for use in pharmaceutical, cosmetic, biotech, medical device facilities and in areas where sterile products are required. The use-solution of this product when diluted 1:128 (8.0 mL/L) is specifically formulated to disinfect and deodorize.

Environ Vesphene st Sterile Phenolic Disinfectant is intended for use on washable, hard, non-porous environmental surfaces such as floors, walls, counters, tools and carts.

The use-dilution of Environ Vesphene st Sterile Phenolic Disinfectant can be used for disinfecting glass, chrome, galvanized metal, stainless-steel, porcelain, tile, washable painted or varnished surfaces, sealed concrete, plastics, as well as resilient vinyl, linoleum, epoxy, rubber, or terrazzo and other combination types of floors or walls.

FEATURES

BENEFITS

Double-bagged package	Facilitates handling in aseptic areas
Gamma irradiated to a minimum of 2.5 Mrd (25.0 kGy)	Validated to verify sterility
Available in unit dose pouches	Saves labor and time when used in validated disinfection processes
Advanced phenolic formula that kills a range of gram positive and gram negative bacteria	Broad spectrum germicidal activity
Contains a detergency system	Provides assistance in cleaning soils

PHYSICAL PROPERTIES

Form.....	Amber to red liquid
Odor.....	Mild and pleasant
Specific gravity (25°C [77°F]).....	1.10 typical
Typical pH (undiluted).....	Approximately 12.0
Typical pH (1:128 dilution [8.0 mL/L]).....	Approximately 10.5
Flash Point (tag closed cup).....	58°C (137°F)

BACTERICIDAL PROPERTIES

Suspension Testing

The bactericidal activity of Environ Vesphene st Sterile Phenolic Disinfectant was tested using the European methodology BS EN 1276:1997. The EN 1276:1997 is a quantitative suspension test for the evaluation of bactericidal activity. The Environ Vesphene st Sterile Phenolic Disinfectant was tested at three concentrations, the in-use concentration and two lower concentrations to test the robustness of the formulation. The Environ Vesphene st Sterile Phenolic Disinfectant concentrate diluted 1:128 (8.0 mL/L) is effective against the following microorganisms showing ≥ 5 -log reduction at a five-minute contact time at room temperature.

<i>Staphylococcus aureus</i>	ATCC 6538 (≥ 400 ppm hard water)
<i>Escherichia coli</i>	ATCC 10536 (≥ 400 ppm hard water)
<i>Enterococcus hirae</i>	ATCC 10541 (≥ 400 ppm hard water)
<i>Pseudomonas aeruginosa</i>	ATCC 15442 (sterile deionized water)

Hard Surface Testing

The bactericidal and fungicidal activity of Environ Vesphene st Sterile Phenolic Disinfectant was tested using the European methodology BS EN 13697 which is a hard surface evaluation of bactericidal and fungicidal activity. Environ Vesphene st Sterile Phenolic Disinfectant concentrate, when diluted 1:128 (8.0 mL/L) in distilled water at room temperature is effective against the following bacteria showing ≥ 4 -log reduction at a five-minute contact time using stainless steel as the hard surface.

<i>Escherichia coli</i>	ATCC 10536
<i>Enterococcus hirae</i>	ATCC 10541
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Aspergillus niger</i>	ATCC 16404 (≥ 3 -log reduction in 15 minutes)
<i>Candida albicans</i>	ATCC 10231 (≥ 3 -log reduction in 15 minutes)

FUNGICIDAL PROPERTIES

The fungicidal activity of Environ Vesphene st Sterile Phenolic Disinfectant was tested using European methodology BS EN 1650:1998. The Environ Vesphene st Sterile Phenolic Disinfectant was tested at three concentrations, the in-use concentration (1:128 [8.0 mL/L]) and two lower concentrations to test the robustness of the formulation. Test suspension of *Candida albicans*, ATCC 10231 was used to evaluate the required activity outlined in the protocol. The Environ Vesphene st Sterile Phenolic Disinfectant was diluted 1:128 (8.0 mL/L) in ≥ 400 ppm hard water and tested under clean conditions (0.03% Bovine Serum Albumin [BSA]) with a 15-minute contact time at room temperature.

The Environ Vesphene st Sterile Phenolic Disinfectant was shown to possess fungicidal activity at a 1:128 (8.0 mL/L) dilution against the reference strain *Candida albicans*, ATCC 10231.

TUBERCULOCIDAL PROPERTIES

This tuberculocidal activity of Environ Vesphene st Sterile Phenolic Disinfectant was tested using European methodology BS EN 14348:2005. The Environ Vesphene st Sterile Phenolic Disinfectant was tested at three concentrations, the in-use concentration (1:128 [8.0 mL/L]) and two lower concentrations to test the robustness of the formulation. A test suspension of *Mycobacterium terrae*, ATCC 15755 was used to evaluate the required activity outlined in the protocol. The Environ Vesphene st Sterile Phenolic Disinfectant was diluted 1:128 (8.0 mL/L) in 400 ppm hard water and tested under clean conditions (0.03% BSA) with a 60-minute contact time at room temperature.

The Environ Vesphene st Sterile Phenolic Disinfectant was shown to possess tuberculocidal activity at a 1:128 (8.0 mL/L) dilution against the reference strain *Mycobacterium terrae*, ATCC 15755.

VIRUCIDAL PROPERTIES

The virucidal activity of Environ Vesphene st Sterile Phenolic Disinfectant was tested using European methodology EN 14476:2005. The Environ Vesphene st Sterile Phenolic Disinfectant was tested at three concentrations, the in-use concentration (1:128 [8.0 mL/L]) and two lower concentrations to test the robustness of the formulation. The test challenge viruses were Influenza A2 (H2N2), Japan/305/57 and Human Immunodeficiency Virus type 1 (HIV-1). The Environ Vesphene st Sterile Phenolic Disinfectant was diluted 1:128 (8.0 mL/L) in sterile EN 14476 hard water and tested under clean conditions (0.03% BSA) with a five-minute contact time at 21°C (70°F).

The Environ Vesphene st Sterile Phenolic Disinfectant was shown to possess virucidal activity at a 1:128 (8.0 mL/L) dilution against Influenza A2 and HIV-1.

DIRECTIONS FOR USE

Cleaning and Disinfecting Washable, Hard, Non-Porous Surfaces

Environ Vesphene st Sterile Phenolic Disinfectant is designed to be used on pre-cleaned surfaces in pharmaceutical, cosmetic, biotech and medical device facilities. Always remove gross filth and heavy soils before application of the use-solution of this product. For disinfection, minimal soil should be visible prior to the application of the use-solution of this product. Add 8.0 mL of Environ Vesphene st Sterile Phenolic Disinfectant to each measured liter of water. Always add this product (concentrate) to pre-measured water. Gently mix until the solution is uniform. Apply use-solution to the surface being disinfected with a cloth, sponge, coarse spray, wiper, mop or brush using normal cleaning methods. Allow the treated surfaces to remain wet for five minutes for bactericidal efficacies and 15 minutes for desired fungicidal efficacies, then remove excess solution with a wrung-out applicator. Discard soiled solutions in an approved manner and replace with fresh use-solutions. Environ Vesphene st Sterile Phenolic Disinfectant is a complete product. Do not add other chemicals. If Environ Vesphene st Sterile Phenolic Disinfectant is frozen, thaw and remix before use. Use only as directed on label.

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 the 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 314-535-1395.

For further information, please contact:

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