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PRODUCT NO.: 3116



Cleanroom Supplies Spor Klenz Ready-To-Use Sterilant, 3.2 L, Sterile (Steris)

DESCRIPTION: This EPA-registered fast-acting sporicidal disinfectant is specifically formulated for sterilization and disinfection of non-porous surfaces in cleanroom environments. Active ingredients include a blend of peracetic acid, acetic acid and hydrogen peroxide. As a result, it can be used as sterilants, sporicides, sanitizers, or broad-spectrum disinfectants for fast, effective microbial control. These sporicidal disinfectants and sterilants perform a critical function in cleanroom disinfectant rotation.

FEATURES:

- ✔ Can be used on stainless steel, plastics, floors, walls, ceilings, countertops and hoods
- ✔ Can be applied by mopping, wiping or spraying
- ✔ Low-toxicity profile adds to worker safety
- ✔ Eliminates errors in dilution preparation
- ✔ Disinfects in 10 minutes and sporicidal in 5 ½ hours when undiluted
- ✔ Reusable as a sterilant or disinfectant (undiluted) for up to 14 days

TECHNICAL SPECIFICATIONS:

Volume (L)	3.2
Dispensing Method	Manual pour
Scent	Vinegar
Concentration of Actives	<10% Acetic Acid, 1% Hydrogen Peroxide, 0.08% Peroxyacetic acid

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SPORIDICIAL PROPERTIES:

- ✔ Spor-Klenz RTU sterilant is registered with the EPA as a sterilant. To be granted this registration, Spor-Klenz RTU sterilant was tested by the Association of Analytical Communities (AOAC International) test method 966.04, Sporicidal Activity of Disinfectants.
- ✔ Method 966.04 is a carrier method, which utilizes cultures of *Bacillus subtilis* (ATCC 19659) and *Clostridium sporogenes* (ATCC 3584) to demonstrate efficacy. As per the test criteria, none of the 720 carriers evaluated in this test showed growth after a 5-1/2 hour exposure to Spor-Klenz RTU sterilant.
- ✔ Spor-Klenz RTU sterilant is registered with the EPA as a sporicide for use on non-porous surfaces undiluted 30 minutes at 20°C (68°F) as tested against *Bacillus subtilis* (ATCC 19659), *Clostridium sporogenes* (ATCC 3584) and *Bacillus cereus* (ATCC 14579).

BACTERIAL PROPERTIES

- ✔ To demonstrate that the Spor-Klenz RTU sterilant meets the EPA requirements for broad-spectrum disinfectant, AOAC Use-Dilution Method 955.14 was performed. This carrier method utilizes *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442) and *Salmonella enterica* (ATCC 10708) to demonstrate efficacy. To satisfy the EPA requirements for a disinfectant claim, no more than one carrier per set of 60 may show growth under the test conditions.
- ✔ Spor-Klenz RTU sterilant is effective against *Mycoplasma gallisepticum* (ATCC 15302) undiluted for 10 minutes at 20°C (68°F).
- ✔ Spor-Klenz RTU sterilant is effective as a non-food contact surface sanitizer (*Staphylococcus aureus* [ATCC 6538] and *Klebsiella pneumoniae* [ATCC 4352]) when diluted 50x (1 part to 49 part water) for five minutes.

REUSE TESTING BY EPA PROTOCOL

- ✔ To demonstrate that Spor-Klenz RTU sterilant may be reused repeatedly for a 14-day period, repeated challenge testing was performed as specified by EPA guidelines (Re-Use Test Protocol Specifications). The test protocol involves daily inoculation of Spor-Klenz RTU sterilant with the following organisms: *Bacillus subtilis* (ATCC 19659), *Clostridium sporogenes* (ATCC 3584), *Pseudomonas aeruginosa* (ATCC 15442) and *Staphylococcus aureus* (ATCC 6538). At days 7 and 14, a portion of Spor-Klenz RTU sterilant which had been treated in this fashion was removed and tested by the aforementioned Sporicidal and Disinfectant Testing protocols. During this testing, no failed carriers were observed.

TUBERCULOCIDAL PROPERTIES

- ✔ Spor-Klenz RTU sterilant is effective against *Mycobacterium bovis* (BCG, Bacillus Calmette-Guerin) as tested by the AOAC Tuberculocidal Activity Test within 10 minutes at 20°C (68°F). Use fresh solutions only.

VIRUCIDAL PROPERTIES

- ✔ Spor-Klenz RTU sterilant was found to be effective against mouse hepatitis virus, minute virus of mice, murine norovirus, murine para influenza virus type 1 (Sendai) and Human Immunodeficiency Virus (HIV-1) when tested according to EPA guidelines undiluted for 10

minutes at 20°C (68°F) exposure. Spor-Klenz RTU sterilant was found to be effective against mouse parvovirus when tested according to EPA guidelines undiluted for 25 minutes at 20°C (68°F). Treated surfaces must remain completely immersed for 25 minutes.

FUNGICIDAL PROPERTIES

- ✔ Spor-Klenz RTU sterilant was found to be effective against *Aspergillus brasiliensis* (ATCC 16404) undiluted five minutes at 20°C (68°F) exposure.

GERMICIDAL SPRAY

- ✔ To demonstrate that Spor-Klenz RTU sterilant is an effective disinfectant when sprayed onto a surface, the AOAC Germicidal Spray Products as Disinfectants test (Method 961.02) was performed. When applied as a spray, per the testing protocol, Spor-Klenz RTU sterilant was found to be effective against *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708) and *Staphylococcus aureus* (ATCC 6538) with an exposure time of 30 seconds at 20°C (68°F).

DIRECTIONS OF USE

Broad-Spectrum Disinfectant

- ✔ For broad-spectrum disinfection of items such as equipment, walls, etc., remove any obvious debris or organic material from the surface to be disinfected. This can often be accomplished by rinsing with purified water, by mechanical action or by the use of a germicidal detergent. Apply the Spor-Klenz RTU sterilant as is (for disinfection) or as a 1:49 dilution (for sanitization) to the clean, dry surface to be treated either by manual or mechanical means (i.e., spraying), in such a manner as to completely wet the surface. The surface must remain wet for a minimum of 10 minutes.
- ✔ It may also be desirable to completely immerse certain items in the Spor-Klenz RTU sterilant. Allowing for materials compatibility with the Spor-Klenz RTU sterilant formula, this is an acceptable practice with the following provisions:
 - The items to be immersed should be free of debris and organic material prior to Spor-Klenz RTU sterilant exposure.
 - The Spor-Klenz RTU sterilant solution may be reused for a period of up to 14 days under these conditions.

Germicidal Spray

- ✔ Apply Spor-Klenz RTU sterilant undiluted onto pre-cleaned surfaces using a plastic spray bottle or other appropriate apparatus. Allow the surface to remain wet for 30 seconds. Allow to air dry.

Cold Sterilant

- ✔ Remove any obvious debris or organic material from the surface to be sterilized. This can often be accomplished by rinsing with water, or by detergent cleaning, followed by a water rinse. Immerse the item to be sterilized with a sufficient volume of undiluted Spor-Klenz RTU sterilant to cover the item and fill all passages requiring sterilization. Maintain items in the sterilizing solution for a minimum of 5-1/2 hours at 20°C (68°F) temperature. Remove items after 5-1/2 hours and rinse with sterile water until effluent reaches an acceptable residue

level. The solution may be used and reused for up to 14 days in a manual system with 5-1/2 hours immersion.

Sporicide

- 🚫 Use only on hard, non-porous surfaces. Remove any obvious debris or organic material from the surface to be treated. This can often be accomplished by rinsing with water or by detergent cleaning followed by a water rinse. Apply product to hard, non-porous surfaces, thoroughly wetting surfaces by immersion. Treated surfaces must remain wet for 30 minutes. Wipe dry or allow to air dry.

Cleaner/Sanitizer (non-food contact surfaces)

- 🚫 Using water or mechanical action, remove heavy soil or gross filth from hard surfaces such as formica, stainless-steel or vinyl surfaces. Apply by cloth, mop or sponge so as to wet all surfaces thoroughly, a freshly made 50x dilution (1 part product to 49 part water) of Spor-Klenz RTU sterilant, made using purified water, to the pre-cleaned surface or immerse pre-cleaned items to be sanitized in the solution. Allow five minutes of contact time. Let air dry or rinse with purified water, drain excess if possible and allow to dry. Spor-Klenz RTU sterilant may not be reused as a cleaner/sanitizer.