

1839-144

04/10/2000

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Stepan Company  
22 W. Frontage Rd.  
Northfield, IL 60093

APR 10 2000

Subject: NP 5.5 HW (D&F) Detergent/Disinfectant  
EPA Registration No. 1839-144  
Your Letter Dated January 26, 2000

Attn: Thomas W. Isaac  
Sr. Regulatory Specialist

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. However, please refer to the Agency's letter, dated January 11, 2000 and make a revision to the label pertaining to number six (6). Insert the word "hard" between "following" and "nonporous" under the "Use Directions".

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the final printed label before this product is released for shipment.

If you have any questions concerning the comments in this letter, you should contact Zenobia Jones at (703) 308-6198.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510W)

CONCURRENCES							
SYMBOL	7510W						
SURNAME	Zenobia Jones						
DATE	4/10/2000						



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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 10 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 1839-144

# NP 5.5 HW (D&F) Detergent/Disinfectant

CLEANER  
DETERGENT  
DEODORIZER  
SANITIZER (non-food  
contact surfaces)  
MILDEWSTAT (on hard, inanimate surfaces)

DISINFECTANT  
FUNGICIDE (Against  
pathogenic fungi)  
VIRUCIDE \*

## ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride.....	1.650%
Dioctyl dimethyl ammonium chloride.....	0.825%
Didecyl dimethyl ammonium chloride.....	0.825%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chlorides .....	2.200%
INERT INGREDIENT .....	<u>94.500%</u>
TOTAL .....	100.000%

EPA REG. No. 1839-144  
EPA EST. No. 1839-IL-01

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

See side panel for additional precautionary statements

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Stepan Company  
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(middle panel)

Amend 01/24/00



## DIRECTIONS FOR USE

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

NP 5.5 HW (D&F) Detergent/Disinfectant is a phosphate-free formulation designed to provide effective cleaning, deodorizing, non-food contact sanitizing, and disinfection specifically for hospitals, nursing homes, schools, food processing plants, food service establishments, transportation terminals, office buildings, manufacturing facilities, lodging establishments, retail businesses and athletic/recreational facilities where housekeeping is of prime importance in controlling the hazard of cross contamination.

This product, when used as directed, is formulated to disinfect the following non-porous inanimate environmental surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, and cabinets. For larger areas, such as operating rooms, and patient care facilities, this product is designed to provide both general cleaning, disinfecting, and sanitizing of non-food contact surfaces.

This product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls, and other areas which are prone to odors caused by microorganisms.

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body.

**GENERAL CLEANING & DEODORIZATION** - Apply product to soiled area with a mop, cloth sponge, or hand pump trigger sprayer. Product can be diluted at 1 1/4 ounces per gallon or applied at full strength. Thoroughly wet soiled surface and scrub as necessary. Rinse surface with potable water and wipe dry with a dry paper towel or line-free cloth.

**DISINFECTION** - To disinfect inanimate, hard surfaces, apply solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

**GENERAL DISINFECTION** - Add 1 1/4 ounces of this product per gallon of water.

**HOSPITAL DISINFECTION** - Add 2 ounces of this product per gallon of water.

To disinfect toilet bowls, remove gross filth prior to disinfection, flush toilet, add 1 1/4 ounces of this product directly to the bowl water. Wab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand 10 minutes and flush.

To disinfect food processing premises: floors, walls, storage areas and equipment, add 1 1/4 ounces of this product per gallon of water. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Before using this product, food products and packaging materials must be removed from the area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To disinfect food service food contact surfaces: countertops, appliances, tables, add 1 1/4 ounces of this product per gallon of water. Apply solution with a cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. This product can not be used to clean the following food contact surfaces: utensils, glassware and dishes.

**SANITIZATION OF NON-FOOD CONTACT SURFACES** - To sanitize porous and non-porous environmental surfaces such as floors, walls, tables, add 1 ounce of this product per 2 3/4 gallons of water. Apply solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 60 seconds, then remove excess liquid. For heavily soiled areas, a pre-cleaning step required. Prepare a fresh solution for each use. This product is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae*.

**BACTERICIDAL ACTIVITY** - When diluted at the rate of 2 ounces per gallon of water, this product exhibits effective disinfectant activity against the organisms: *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella choleraesuis*, *Staphylococcus aureus*, *Streptococcus* genes, *Enterobacter aerogenes*, *Streptococcus faecalis*, *Shigella dysenteriae*, *Brevibacterium ammoniagenes*, *Salmonella typhi*, and *Serratia marcescens*.

When diluted at the rate of 2 ounces per gallon of water, this product exhibits effective disinfectant activity against *Pseudomonas aeruginosa* in addition to the above microorganisms and meets all requirements for hospital use.

**\* VIRUCIDAL ACTIVITY** - This product when used on environmental, non-porous, inanimate, hard surfaces at 1 1/4 ounces per gallon of water exhibits effective virucidal activity against Influenza A/Brazil (lower respiratory tract disease).

**MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 1 1/4 ounces of this product per gallon of water. Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

**FUNGICIDAL ACTIVITY** - At the 2 ounces per gallon dilution, this product is fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* (athlete's foot fungus) when used on hard surfaces in such areas as locker rooms, dressing rooms, shower and bath areas, and in exercise facilities. Allow the surface to remain wet for 10 minutes, then remove excess liquid. Diluted product should be applied daily or more frequently with heavy facility use.

**EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE, FUNGICIDE, AND VIRUCIDE IN WATER UP TO 400 PPM HARDNESS (AS CaCO<sub>3</sub>) IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).**

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**KILLS HIV-1 ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings (Hospitals, Nursing Homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS.)

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids use disposable latex gloves, gowns, masks, or eye coverings.

**CLEANING PROCEDURES:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

**CONTACT TIME:** Allow surface to remain wet for 10 minutes.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN. CORROSIVE.** Causes severe eye and skin damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. If swallowed, drink egg whites or gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call physician immediately.

**NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing or 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.**

**STORAGE** - Store in a dry place no lower in temperature than 50°F or higher than 120°F.

**CONTAINER DISPOSAL** - Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned stay out of smoke.

**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 you State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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