

Stepan Company  
22 West Frontage Road  
Northfield, IL 60093

FEB - 6 1989

Attention: Leo Dringoli

Gentlemen:

Subject: NP 45 Detergent/Disinfectant  
EPA Registration No. 1839-79  
Your Amended Application Dated March 29, 1988

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling.
  - a. Refer to the enclosed Efficacy Evaluation and Technical Efficacy Review - II, and revise your labeling in accordance with the labeling comments outlined there.
  - b. Refer to the enclosed document "Label Requirements for Antimicrobial Pesticides Used on Hard Surfaces Against HIV-1 (AIDS Virus)" for EPA's current labeling policy for efficacy claims. Your labeling must be revised in accordance with the requirements outlined in this policy notice.
  - c. Delete the statement "Only For Sale To, Use And Storage By Service Persons."
  - d. Delete the statement "Measures against circulatory shock, respiratory depression and convulsion may be needed."
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

54701: I. Leavy: IL-07: KENCO-12/20/88-02/D3/89: aw: VO: EK: AS

## CONCURRENCES

SYMBOL							
SURNAME							
DATE							

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Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

John H. Lee   
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (TS-767C)

Enclosures

## DIRECTIONS FOR USE

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

NP 4.5 detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants and other institutions where housekeeping is of prime importance.

**DISINFECTION**-To disinfect hard inanimate surfaces (such as walls, floors, table tops), add 2 ounces NP 4.5 detergent/disinfectant per gallon of water. Apply solution with mop, cloth, or sponge or mechanical sprayer so as to wet thoroughly. Allow to remain wet for 10 minutes.

To disinfect toilet bowls, flush toilet, add 2 ounces NP 4.5 detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush.

For heavily soiled areas, a pre-cleaning step is required and recommended. Prepare a fresh solution for each use.

**MILDEWSTAT**-To control mold and mildew on pre-cleaned, hard non-porous surfaces (such as floors, walls, table tops) add 2 ounces NP 4.5 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 reappears.

**SANITIZATION**-To sanitize previously cleaned and rinsed non-porous food contact surfaces, prepare 200 ppm active quaternary NP 4.5 solution by adding 2 ounces NP 4.5 to 3 1/2 gallons of water.

To sanitize immobile items (such as tanks, chopping blocks, counter tops), flood the area with 200 ppm NP 4.5 solution or apply with a cloth or sponge, making sure to wet all surfaces completely for at least 60 seconds. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items (such as drinking glasses, eating utensils), immerse in 200 ppm NP 4.5 solution for at least 60 seconds making sure to immerse completely. Remove and let air dry. Prepare a fresh solution, daily or more frequently as soil is apparent.

## PRECAUTIONARY STATEMENTS

Hazard to Human and Domestic Animals

### DANGER

Keep Out of Reach of Children. Causes eye and skin irritation. Do not get in eyes, skin or on clothing. Harmful if swallowed.

### 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. Remove and wash all contaminated clothing before reuse. If swallowed, drink milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician.

### NOTE TO PHYSICIAN

Probable mucosa damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

5

FEB - 6 1989

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

NP 4.5  
detergent/disinfectant 1839-79

CLEANER  
DETERGENT  
DEODORIZER  
SANITIZER  
MILDEWSTAT (on hard inanimate surfaces)

DISINFECTANT  
FUNGICIDE (against pathogenic fungi)  
VIRUCIDE\*

### ACTIVE INGREDIENTS:

n-Alkyl (80% C14, 30% C16, 5% C12, 5% C18)	
dimethyl benzyl ammonium chlorides	2.25%
n-Alkyl (88% C12, 32% C14)	
dimethyl ethylbenzyl ammonium chlorides	2.25%
INERT INGREDIENTS	95.50%
	Total 100%

EPA REG. NO. 1839-81  
EPA EST. NO. 1839-IL-01  
ONLY FOR SALE TO, USE, AND  
STORAGE BY SERVICE PERSONS

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

see side panels for additional precautionary statements

Stepan Company  
Northfield, IL 60093

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BEST AVAILABLE COPY

NP 4.5 is a detergent/disinfectant/deodorizing, disinfectant/detergent/disinfectant for hospitals, nursing homes, other institutions where controlling the hazards of NP 4.5 when diluted is an effective disinfectant against bacteria and viruses. It is used as directed, inanimate hard and soft surfaces, bowls, tables, chairs, floors, etc. In addition, it is used in empty garbage bins which are prone to odors. It exhibits effective disinfection.

Pseudomonas aeruginosa, Escherichia coli, Klebsiella pneumoniae, Salmonella schultzei, Salmonella choleraesuis, Streptococcus faecalis. At this level the product kills fungi, Trichophyton, VIRUCIDAL\* AC environmental inactivation water exhibits effective disinfection. Asian (representative of causative agent of virus type 2 (causative agent of Vaccinia virus (reproduction)).

HIV-1 (AIDS virus). EFFICACY TEST: AN EFFECTIVE BACTERICIDE IN THE PRESENCE OF MOLD AND MILDEW. mold and mildew on inanimate surfaces. SANITIZATION-when cleaned food equipment quaternaries to 200 ppm. RINSE is required. No water up to 250 ppm.

DO NOT CONTAMINATE OR DISPOSAL. STORAGE: Store in a cool, dry place or higher than 120°F. PESTICIDE DISPOSAL: Improper disposal is a violation of Federal law according to the Environmental Conservation Act at the nearest. CONTAINER DISPOSAL: rinse empty container, reconditioning or purchase other procedures as outlined by local or state laws.