

AUG 24 1987

Zep Manufacturing Company
P.O. Box 2015
Atlanta, GA 30301

Attention: Chris Langston

Gentlemen:

Subject: Zep Attack Hard Water Formul ion
EPA Registration No. 1270-22,
Your Amendment Application Dated August 22, 1986

The submitted efficacy data by the modified A.O.A.C. Use-Dilution Method appear adequate to support effectiveness of the product as a virucide against vaccinia virus at a 1:128 dilution in the presence of moderate amount of organic soil (5% blood serum) and 400 ppm (CaCO₃) hard water on hard, nonporous surfaces which are thoroughly wet by the solution and remain wet for a contact time of 10 minutes.

The amendment is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under section 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
 - Change Influenza A₂ Asian to read Influenza Type A₂/Asian.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

94993:I:Lee:L-15:KENCO:6/29/87:07/09/87:aw:VO:EK:aw

CONCURRENCES


SYMBOL	ORIGINATOR							
SURNAME								
DATE								

2/3 .

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,


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

Enclosure

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

Causes severe eye damage and skin irritation. DO NOT get in eyes, on skin, or on clothing. Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink milk, egg whites, gelatin solution, or if these are not available, drink a large quantity of water. Call a physician.

If In Eyes: Flush eyes with plenty of water. Call a physician.

If on Skin: Wash affected areas with soap and water. If irritation persists, call a physician.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Pesticide Disposal: DO NOT contaminate water, food, or feed by storage and 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 your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Small plastic containers, after rinsing and puncturing as above, may be disposed of by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**THIS PRODUCT WILL KILL THE FOLLOWING
ORGANISMS ON INANIMATE ENVIRONMENTAL
SURFACES IN THE PRESENCE OF HARD WATER (to 400
ppm CaCO₃) AND 5% ORGANIC SOIL:**

Pseudomonas aeruginosa PRD-10
Salmonella scholtzmulleri
Streptococcus salivarius
Salmonella choleraesuis
Brevibacterium ammoniagenes
Streptococcus laealis

Klebsiella pneumoniae
Staphylococcus aureus
Enterobacter aerogenes
Shigella dysenteriae
Escherichia coli
Trichophyton mentagrophytes

ACCEPTED FOR CONTENTS, GALS.
with COMMENTS
In EPA Letter Dated:
AUG 24 1987
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
1270-226a

PHOD. #

765A

ZEP ATTACK

**HARD WATER FORMULATION
FOR HOSPITAL USE**

**Cleaner • Disinfectant • Deodorant
Bactericidal • Fungicidal • Virucidal***

AOAC USE-DILUTION METHOD

Staphylococcus aureus	1:128
Salmonella choleraesuis	1:128
Pseudomonas aeruginosa	1:128
AOAC Fungicidal Test	1:128

ACTIVE INGREDIENTS:

N-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides	4.5%
N-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides	4.5%

INERT INGREDIENTS:	91.0%
TOTAL	100.0%

*At 1 ounce per gallon use-level this product is virucidal against Influenza A₂ Asian (a representative common flu virus), Vaccinia, and Herpes Simplex Type 2 on hard inanimate, environmental surfaces in the presence of 400 ppm (as CaCO₃) hard water and 5% blood serum.

An effective "one-step" cleaner, bactericide, fungicide, and virucide, which is efficacious in hard water (to 400 ppm CaCO₃) containing 5% organic soil (5% blood serum). Cleans, deodorizes, and disinfects all in one easy operation. Non-selective. Kills a broad spectrum of both gram negative and gram positive organisms. Contains an effective blend of quaternary germicides, synthetic detergents, water softening agents and builders. Especially suited for hospitals, clinics, nursing homes, and institutions. For use on all types of washable surfaces including floors, walls, cabinets, bed rails, chairs, woodwork, bedpans, sinks, tube instruments, and equipment. Phosphate free.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

See Left Panel For Additional Precautionary Statements.

EPA REG. NO. 1270-226

EPA EST. NO. 1270-GA-1

ACCEPTED FOR CONTENTS, GALS.
with COMMENTS

CONTROL NO.

In EPA Letter Dated:

Manufactured By

ZEP MANUFACTURING COMPANY

Division of National Service Industries, Inc.

ATLANTA, GEORGIA 30301

Principal Cities, USA and Throughout the World

DIRECT

- This is a concentrate. Dilute as directed.
- To Clean and Disinfect Bedpans and Operating Tables: Using 1 oz. of product per gallon of water (1/2 cup per gallon) on a wet cloth or sponge. Allow to stand for 10 minutes. Pre-clean surfaces to remove soil.
 - To Clean and Disinfect Floors: Use 1/2 cup per gallon of water (1/2 cup per gallon of water) on heavy soils, then damp mop floor.
 - Cold Disinfection of Instruments: Immerse for 10 minutes per gallon of water. Hollow of instruments must be rinsed thoroughly after each day's use.
 - To Disinfect Rubber Masks, Catheters, and other water sensitive items: Immerse for 10 minutes, but no longer than 15 minutes, in 70% alcohol. Rinse with water. Discard used solution after each day's use.
 - To Disinfect Sheets, Fabrics: Rinse articles, if necessary, prior to disinfection. Prepare a solution of 1/2 cup per gallon of water from rinsed articles. Soak for 12 pounds must be 12 minutes prior to laundering.
 - To Clean and Disinfect Exterior Toilet and Urinal Other Hard Surfaces: Dilute 1/2 cup per 2 gallons of water in pail) and contact time of 10 minutes for difficult or heavy soil prior to disinfection.

A GERMICIDAL CLEANER FOR

Operating Rooms	Cafeteria
Recovery Rooms	Pediatrics
Patient Rooms	Corridors
Maternity	Offices
Nursery	Outpatient

Warranty — This product is designed for use by trained professional personnel. Precautions must be followed and the user is responsible for any injury, loss, or damage in compliance with label directions.