

1769-259

4/16/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 18 2001

NCH Corporation  
2727 Chemsearch Blvd.  
Irving, TX 75062

ATTENTION: Christine Williamson

SUBJECT: Grenadier  
EPA Registration Number 1769-259  
Your Amendment Dated: January 12, 2001  
EPA Received Date: January 18, 2001

The amendment referred to above, submitted in connection with registration under FIFRA as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

A. Revise the statement in the first section on page one to read exactly as follows: "Effective against HIV-1 (AIDS virus), Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Influenza A2 and Herpes simplex Type 1 viruses carried on inanimate *hard nonporous* environmental surfaces.

B. Revise the statement in the first complete section on page two to read exactly as follows: "Effective against Canine Parvovirus, Canine Distemper, Pseudorabies virus and Newcastle's Virus carried on inanimate *hard non-porous* surfaces.

C. Revise the "Disinfection" directions as follows: "...Apply the solution with a mop, cloth or sponge. *Let stand for 10 minutes. Then* rinse with potable water and let air dry. To disinfect commodes, *remove gross filth and heavy soil*, flush, then add..."

D. Revise the directions for use a fungicide to include the following: "...against the pathogenic fungus Trichophyton mentagrophytes, (causative agent of athlete's foot) on *hard nonporous* inanimate environmental surfaces." In addition, delete the surface "countertops" and add the following surfaces which are appropriate surfaces for treatment against this organism: "*shower room floors, locker room benches, and bath mats*"

CONCURRENCES

SYMBOL	7510C							
SURNAME	S. Jones							
DATE	4/12/01							

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E. Revise the directions for use as a deodorizer as follows: "Add 1 ounce per gallon of water in a rinse or soak cycle of washer to deodorize diapers and work clothes."

F. Revise the directions for "Disinfection and Deodorization of Pet Care Facilities as follows: "Remove animals from the premise prior to applying this product. Remove all litter and manure from floors, walls and other areas occupied or traversed by animals. Empty all feeding and watering dishes and appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply liberally to all surfaces using a mop, cloth or sponge. Allow solution to remain on surfaces for 10 minutes. Ventilate closed spaces. After disinfecting, thoroughly scrub all feeding and watering dishes and appliances with soap or detergent, and rinse with potable water before reuse. Let surfaces air dry before permitting re-entry of animals."

G. Revise the "Pesticide Storage" statement for containers 2 gallons and larger to include the following phrase: "...in a cool, dry area inaccessible to children and pets and in the original container."

2. Submit two ( 2 ) copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure  
7510C:T.Lantz:4/12/01:1769-259d

CONCURRENCES							
SYMBOL							
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FILE CODE: 0328NCBA

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**GRENADIER™**

Antimicrobial Cleaner · Deodorizer · Disinfectant · Fungicide

Kills HIV-1 (AIDS virus) on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids.

**ACTIVE INGREDIENTS**

n-Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> ) dimethyl benzyl ammonium chlorides . . . . .	2.25%
n-Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethylbenzyl ammonium chlorides . . . . .	2.25%
<b>OTHER INGREDIENTS</b> . . . . .	<u>95.50%</u>
<b>TOTAL</b> . . . . .	<b>100.00%</b>

(For contents of 2 gallons and larger)

NET CONTENTS: \_\_\_\_\_

(For contents of 1 gallon)

NET CONTENTS: 1 gallon/3.78 liters

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

(See side panels for additional precautionary statements.)

EPA REG. NO. 1769-259  
EPA Est. No. 4140 -  
CA-1 IN-1 NJ-1 PR-1 TX-1 TX-2

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
**APR 16 2001**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
**1769-259**

GRENADIER is an antimicrobial cleaner and disinfectant designed for institutional use, such as hospitals, operating rooms, nursing homes and schools where housekeeping will be of prime importance in controlling the hazard of cross-contamination from environmental surfaces. GRENADIER can provide the assurance you need in this area, when used as directed. For use on floors, walls, sink tops, garbage pails, telephones, restrooms, bed pans and other hard nonporous inanimate environmental surfaces. Effective against HIV-1 (AIDS virus), Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Influenza A<sub>2</sub> and Herpes simplex Type 1 viruses carried on inanimate environmental surfaces.

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. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

[Additional claims]

GRENADIER is also an excellent cleaner, disinfectant and deodorizer for use in pet care facilities, such as veterinarian clinics, animal hospitals and kennels. Effective against Canine Parvovirus, Canine Distemper, Pseudorabies Virus and Newcastle's Virus carried on inanimate surfaces.

**DIRECTIONS FOR USE**

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

**DISINFECTION:** Use at 2 ounces per gallon. This product will be effective against Pseudomonas aeruginosa PRD-10 at this level. This has been substantiated by the AOAC Use Dilution Confirmation Test. At this level, the product is also fungicidal against the pathogenic fungus Trichophyton mentagrophytes. Remove gross filth and heavy soil deposits from surfaces prior to application of the recommended solution. To disinfect hard nonporous inanimate environmental surfaces (such as walls, resilient floors, sealed wooden floors, countertops, table tops), add 2 ounces of GRENADIER per gallon of water. Apply the solution with a mop, cloth or sponge. Rinse with potable water and let air dry. To disinfect commodes, flush, then add 2 ounces of GRENADIER directly to the commode water. Swab the commode completely, including under the rim, with a toilet mop or scrub brush. Let stand for 10 minutes and flush.

**VIRUCIDAL ACTIVITY:** The product, when used on hard nonporous inanimate environmental surfaces at 2 ounces per gallon of water, exhibits effective virucidal activity against HIV-1 (AIDS virus), Influenza A<sub>2</sub> (Asian) (representative of the common flu virus), Herpes simplex Type 1 (causative agent of fever blisters), Adeno virus Type 2 (causative agent of upper respiratory infections), and Vaccinia virus (representative of the pox virus group).

**KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings 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 (AIDS VIRUS) OF HARD, NONPOROUS SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS**

**PERSONAL PROTECTION**

Before beginning to disinfect contaminated surfaces, the person performing the job should wear disposable latex gloves, gown, surgical mask and eye coverings.

**CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of GRENADIER.

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

**CONTACT TIME:** To disinfect the surfaces/objects, use GRENADIER at a 1:64 dilution, 2 ounces/gallon of tap water, and allow a contact time of 10 minutes at room temperature (20°-25°C/70°-75°F).

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**FUNGICIDAL ACTIVITY:** Use at 2 ounces per gallon. At this level, the product is effective as a fungicidal against the pathogenic fungus *Trichophyton mentagrophytes*, (causative agent of athlete's foot). Remove gross filth and heavy soil deposits from surfaces prior to application of the recommended solution. To disinfect hard nonporous inanimate environmental surfaces (such as walls, resilient floors, sealed wooden floors and countertops), add 2 ounces of GRENADIER per gallon of water. Apply the solution with a mop, cloth or sponge. Agitate thoroughly and allow the solution to remain on the surface for 10 minutes. Rinse with potable water and let air dry.

**DEODORIZATION:** Add 2 ounces per gallon of mop water. This will provide excellent deodorization to areas where hand wiping or damp mopping is done. Add 2 ounces per gallon of water in a rinse or soak cycle of washer to deodorize diapers and work clothes.

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[Additional use directions]

**DISINFECTION AND DEODORIZATION OF PET CARE FACILITIES**

Remove animals from the premises prior to applying this product. Dilute GRENADIER at a rate of 2 ounces per gallon of water. Apply liberally to all contaminated surfaces using a mop, cloth or sponge. Agitate thoroughly and allow the solution to remain on the surface for 10 minutes. Rinse with potable water and let air dry before permitting re-entry of animals.

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[storage and disposal for 2 gallons and larger]

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep the container closed when not in use. Store pesticide in a cool, dry area in the original container.

**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 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 an incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

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[storage and disposal for 1 gallon and smaller]

**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE: KEEP CONTAINER CLOSED.** Store in the original container in a cool, dry area inaccessible to children and pets.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse container. Rinse thoroughly before discarding in trash.

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

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID  
IF IN EYES**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

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**IF ON SKIN OR  
CLOTHING**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

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**IF SWALLOWED**

- Call a poison control center or doctor immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF INHALED**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**For medical or environmental emergencies, call CHEMTREC® at 1-800-424-9300.**

See the Material Safety Data Sheet for potential chronic hazards and for more information.

[for containers 5 gallons and over]

**ENVIRONMENTAL HAZARDS:** 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 prior to the discharge. Do not discharge effluent containing this product to sewer

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systems without previously notifying the local sewage treatment plant authority.  
For guidance, contact your state water board or regional office of the EPA.

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**Not for Resale**

MADE IN THE U.S.A.

OM101 0323NCBA

**TO REORDER**

Call TOLL-FREE: 1-800-527-9921

Fax: 1-800-456-0010

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