

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 30 1992

Hako Minuteman, Inc.  
Multi-Clean Division  
600 Cardigan Road  
Shoreview, MN 55126

Attn: Lawrence Zack

Subject: Ful-Trole  
EPA Registration No. 5449-11  
Amendments dated September 30, 1991 and  
December 12, 1991

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, 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. On the left panel, the heading "Carpet Cleaning" must be revised to read "Carpet Sanitizing against odor causing bacteria".
- b. On the top middle panel, revise the wording, See "carpet cleaning" section for details, to read: See "Carpet sanitizing against odor causing bacateria" section for details.
- c. Under "Directions For Use", after the subheading "Cleaning Toilet Bowls", revise the entire paragraph to read: "Disinfecting Toilet Bowls, remove gross soils from surfaces with bowl brush, add 1.75 oz of Ful-Trole to bowl water. Swab the bowl completely using a scrub brush making sure to get under the rim. Let stand for ten (10) minutes and flush".

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d. Under the directions for use and under disinfection, revise the statement "... gram positive organisms as represented by": to read "... gram positive organisms tested:".

e. In the Storage and Disposal section, under the subheading "Container Disposal", include the following statement for plastic containers.

Plastic Container

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or by incineration if allowed by state and local authorities.

2. The Confidential Statement of Formula agrees with the label and is acceptable.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely,

John H. Lee  
Product Manager 31  
Antimicrobial Program Branch  
Registration Division H7505C

Enclosure

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# Multi-Clean<sup>®</sup> Ful-Trole

## CARPET CLEANING

FUL-TROLE may be used to clean and sanitize carpet against gram-negative and gram-positive odor causing bacteria. Its effective detergent system cleans the carpet while its quaternary ammonium surfactant reduces the growth of odor causing bacteria, thus effectively deodorizing the carpet.

**DIRECTIONS:** Extraction: 1) Vacuum carpet. 2) Prepare a 2 oz./gallon solution of FUL-TROLE and clean the carpet using normal hot water extraction equipment and procedures.

Spin Bonnetting: 1) Vacuum carpet. 2) Pre-spray traffic lanes, heavily soiled areas and spots with a 2 oz./gallon solution of FUL-TROLE. 3) Soak bonnet in a 2 oz./gallon solution of FUL-TROLE, wring out thoroughly and scrub carpet.

Note: Do not use on wool or stain resistant type carpets. Replace solution daily or when it becomes visibly dirty.

**Hako<sup>®</sup>**  
**Minuteman<sup>®</sup>**

Multi-Clean Division  
500 Garden Road  
Shoreview, Minnesota 55128  
612-431-1900

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 30 1992

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
5449-11



FUL-TROLE is an industrial cleaner which disinfects as it cleans. It is designed for schools, non-medical institutions and industry. It removes dirt and grime, disinfects, is virucidal, fungicidal, and kills mold and mildew and their odors. When used as directed, the disinfecting action of FUL-TROLE is also an extremely effective one on non-food contact surfaces. FUL-TROLE will deodorize surfaces in and under sinks and counters, garbage cans and garbage storage places where bacterial growth can cause malodors. FUL-TROLE may also be used as a carpet cleaner and sanitizer against odor causing bacteria. See the directions section for details.

## DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling. Apply FUL-TROLE to walls, floors and other hard (inanimate) surfaces such as tables, chairs, countertops, sinks, toilet bowls, and bedframes with a cloth, mop, swab or mechanical spray device on wet surfaces. For heavily soiled areas, a preliminary cleaning is recommended. Refresh solution daily or when use-solution becomes visibly dirty.

**Disinfection** - to disinfect hard, non-porous surfaces, add 2 oz. per gallon. Treated surfaces must remain wet for 10 minutes. The activity of FUL-TROLE has been evaluated in the presence of 5% serum by the AOAC International Test and found to be effective against a broad spectrum of gram negative and gram positive organisms as represented by: *Escherichia coli*, *Staphylococcus typhi*, *Salmonella choleraesuis*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, *Salmonella schottmulleri*, *Streptococcus pyogenes*, *Shigella dysenteriae*, *Brevibacterium ammoniagenes*.

FUL-TROLE is effective against *Trichophyton mentagrophytes* (fungus) when used in areas such as locker rooms, showers, bath and dressing rooms, etc., at 2 oz./gallon.

\*At 2 oz./gallon, FUL-TROLE was evaluated in the presence of 5% serum to be effective against the following viruses: Influenza A/Brazil, Herpesvirus, Vaccinia, on inanimate environmental surfaces.

**Cleaning Toilet Bowls.** Remove residual water from toilet bowl. Apply this product as a cleaner/disinfectant. Then swab the toilet bowl with a solution of FUL-TROLE.

**Mold and Mildew Control.** At 2 oz./gallon, FUL-TROLE will effectively control the growth of mold and mildew and the odors caused by them when applied to porous surfaces (as indicated in general instructions above). Allow to dry and repeat when mildew growth returns.

**Sanitizing - Non-Food Contact Surfaces** (such as floors, walls, etc.). At 5 oz. per 4.5 gallon use-level, 30 seconds contact time, FUL-TROLE is an effective sanitizing agent against *Staphylococcus aureus* and *Klebsiella pneumoniae* in the presence of 5% serum on porous and non-porous environments.

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# Multi-Clean® Ful-Trole

Disinfectant - Cleaner - Sanitizer - Fungicide - Mildewstat -  
Virucide\* - Deodorizer with Organic Soil Tolerance

**Active Ingredients:**

Octyl decyl dimethyl  
ammonium chloride .....0.54%  
Dioctyl dimethyl ammonium  
chloride.....0.27%  
Didecyl dimethyl ammonium  
chloride.....0.27%  
Alkyl (C14, 50%; C12, 40%;  
C16, 10%) dimethyl benzyl  
ammonium chloride .....0.72%  
Inert Ingredients.....98.20%  
100.00%

EPA Registration No. 5449-11  
EPA Establishment No. 5449-MN-1

**KEEP OUT OF REACH  
OF CHILDREN**

**DANGER:** See  
right panel for  
precautionary  
statements.

1 Gallon  
(3.785 liters)



**PRECAUTIONARY STATEMENTS:**  
**KEEP OUT OF REACH OF CHILDREN.**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS.**  
**DANGER**

**CORROSIVE:** Causes 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 if swallowed. Avoid contamination of food.

**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 contaminated clothing before reuse. If swallowed, drink promptly a large quantity of egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Never give anything by mouth to an unconscious person.

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Do not store on side. Avoid creasing or impacting of side walls.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Metal Container:** Triple rinse (or equivalent). Then offer for recycling, reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

The following chemicals are listed in accordance with state laws: Quaternary ammonium chloride surfactants, CAS #68424-95-5 and 132-08-2; Tetrasodium ethylene diamine sulfate, CAS #64-02-8; Sodium metasilicate pentahydrate, CAS #6834-92-0; Aluminic surfactant, CAS #9016-45-09; Water, CAS #7732-18-5

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