

A soapless, synthetic detergent with broad spectrum kill of micro-organisms both gram positive and gram negative. For outstanding cleaning and disinfecting in one operation. Non-flammable and non-volatile in use dilutions. Safe for use on electrically conductive floors. Excellent solubility, dilutes clear (1:256) in hot, cold, soft or hard water of up to 400 ppm water hardness. Contains biodegradable detergent. Dilute as directed using standard measuring cup or jug pump. Do not mix with other cleaners. Rinse empty Cleaner-Disinfectant container thoroughly with water and discard it.

Proven effective for hospital use by the following tests:

A.O.A.C.** (Use Dilution Test Method)	Dilution	A.O.A.C.** (Fungicide Test)	Dilution
Staphylococcus aureus #6538	1256	Trichophyton interdigitale #640	1307
Staphylococcus aureus #14154	1256	A.O.A.C.** (Tuberculocidal Test)	
Pseudomonas aeruginosa PRD-10 #15442	1256	Mycobacterium tuberculosis BCG	1256
Streptococcus hemolyticus #9342	1256	Adapted** (Virucidal Test)*	
Salmonella choleraesuis #10708	1256	Influenza Type A2, Taiwan	
Diplococcus pneumoniae #6303	1256	Strain - Asian Flu	1256
Escherichia coli #11229	1256	Herpes Simp'lex WI-38	1256
Proteus vulgaris #8427	1256	A.O.A.C.** (Phenol Coefficients)	
Streptococcus fecalis #8043	1256	Salmonella typhosa - - -	22.1
Salmonella typhosa #6539	1256	Staphylococcus aureus -	20.1

**Above A.O.A.C. tests run in conformance with A.O.A.C. Eleventh Edition 1970 and all tests in presence of A.O.A.C. 500 ppm hardness as calcium carbonate.

HOSPITAL USE DIRECTIONS:

1. To clean, disinfect, and deodorize walls, floors and other similar non-porous surfaces, use ½ ounce of Cleaner-Disinfectant per gallon of water.
2. To clean, disinfect and deodorize cement block, scarred furniture and other similar porous and heavily contaminated surfaces, use ½ ounce of Cleaner-Disinfectant per gallon of water with special attention given to thorough cleaning.
3. To fog an unoccupied room as an adjunct either preceding or following regular cleaning and disinfecting procedures use a dilution of 1:84 or 1½ ounces of Cleaner-Disinfectant per gallon of water per average size room. Allow minimum of 2 hours after fogging has stopped before entering room.
4. *Virucidal activity at ½ oz. per gallon disinfects Influenza A2 (Asian Flu), carried on inanimate environmental surfaces.

CLASSIFIED BY UNDERWriters' LABORATORIES, INC. AS TO ELECTRICAL CONDUCTIVITY WHEN USED ON CONDUCTIVE FLOORS AND SPONTANEOUS HEATING. SEE UL INDEX OF CLASSIFIED PRODUCTS FOR USE WITH ELECTRICALLY CONDUCTIVE FLOORINGS OF THE VINYL AND LINOLEUM TYPE.

E. P. A. REGISTRATION NO. 9232-7

ADVANTAGE 256

CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL - PSEUDOMONACIDAL - BACTERICIDAL - FUNGICIDAL - TUBERCULOCIDAL - VIRUCIDAL * AT 1:256 DILUTION IN SOFT OR HARD WATER (A.O.A.C. 500 PPM HARDNESS AS CALCIUM CARBONATE). RETAINS EFFECTIVENESS OF ELECTRICAL- LY CONDUCTIVE FLOORS.

ACTIVE INGREDIENTS: Ortho-Phenylphenol 11%, Ortho-Benzyl-Para-Chlorophenol 6%, Para-Tertiary-Amylphenol 4%, Trisodium N-hydroxyethylenediaminetriacetate 0.6%.
 INERT INGREDIENTS: 78.4%

DANGER - KEEP OUT OF REACH OF CHILDREN

See additional precautions on right hand panel.

NET CONTENTS

FEDERAL INTERNATIONAL CHEMICALS

2451 S. ASHLAND AVE. - CHICAGO, ILLINOIS 60608

HAZARDOUS
SUBSTANCE
ACTIVITY
AND SPONTANEOUS
FIRE OR EXPLOSION
CLASSIFIED
ELECTRICALLY CONDUCTIVE
POLYMER AND LIQUID

E. P. A. REGISTRATION NO.
9232-7

ADVANTAGE 256

CLEANER-DISINFECTANT-DEODORANT

ANTIFUNGICIDAL-PSEUDOMONACIDAL-BACTERICIDAL-FUNGICIDAL-TUBERCULOCIDAL* AT 1:256 DILUTION IN SOFT OR HARD WATER (A.O.A.C. 500 PPM CALCIUM CARBONATE). RETAINS EFFECTIVENESS OF ELECTRICAL-VE FLOORS.

INGREDIENTS: Ortho-Phenylphenol 11%, Ortho-Benzyl-Para-Chlorophenol 6%, p-Tolylphenol 4%, Trisodium N-hydroxyethylenediaminetriacetate 0.6%.

INGREDIENTS: 78.4%

ANGER - KEEP OUT OF REACH OF CHILDREN

See additional precautions on right hand panel.

NET CONTENTS

GENERAL INTERNATIONAL CHEMICALS

51 S. ASHLAND AVE. - CHICAGO, ILLINOIS 60608

GENERAL USE DIRECTIONS:

1. To clean, disinfect, and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans: Remove gross filth and heavy soil deposits from areas such as kennels and bird cages prior to application of Cleaner-Disinfectant solution. Wash with solution containing 1/2 oz. of Cleaner-Disinfectant per gallon of water. All food contact surfaces must be rinsed with potable water before reuse.
2. To clean and disinfect such articles as combs, brushes, razors, scissors, instruments and rubber goods: Wipe articles clean and soak for ten minutes in a solution containing 1/2 oz. of Cleaner-Disinfectant per gallon of water.
3. To disinfect fabrics such as sheets, linens, aprons and uniforms: Soak for ten minutes in solution containing 1/2 ounce of Cleaner-Disinfectant per gallon of water.
4. To clean grease laden or grossly contaminated surfaces use 1 ounce of Cleaner-Disinfectant per gallon of water.

DANGER - KEEP OUT OF REACH OF CHILDREN.

Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food.

FIRST AID: 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 milk, egg whites, gelatine solution, or if these are not available, drink large quantities of water. Avoid alcohol and 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.

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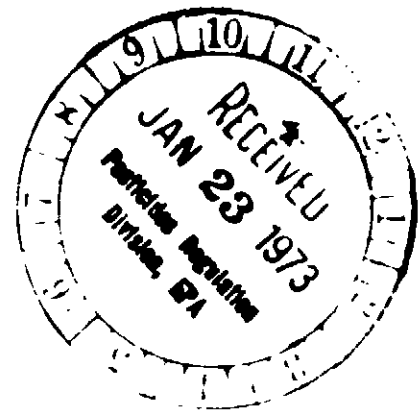
ACCEPTED

FEB 8 1973

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC PESTICIDE REGISTRATION
ED UNDER NO. 2232-32 - SUBJECT
TO ATTACHED CONDITIONS.

CLASSIFIED BY UNDERWRITERS' LABORATORIES, INC. AS TO ELECTRICAL CONDUCTIVITY WHEN USED ON CONDUCTIVE FLOORS AND SPONTANEOUS HEATING. SEE UL INDEX OF CLASSIFIED PRODUCTS. FOR USE WITH ELECTRICALLY CONDUCTIVE FLOORINGS OF THE VINYL AND LINOLEUM TYPE.

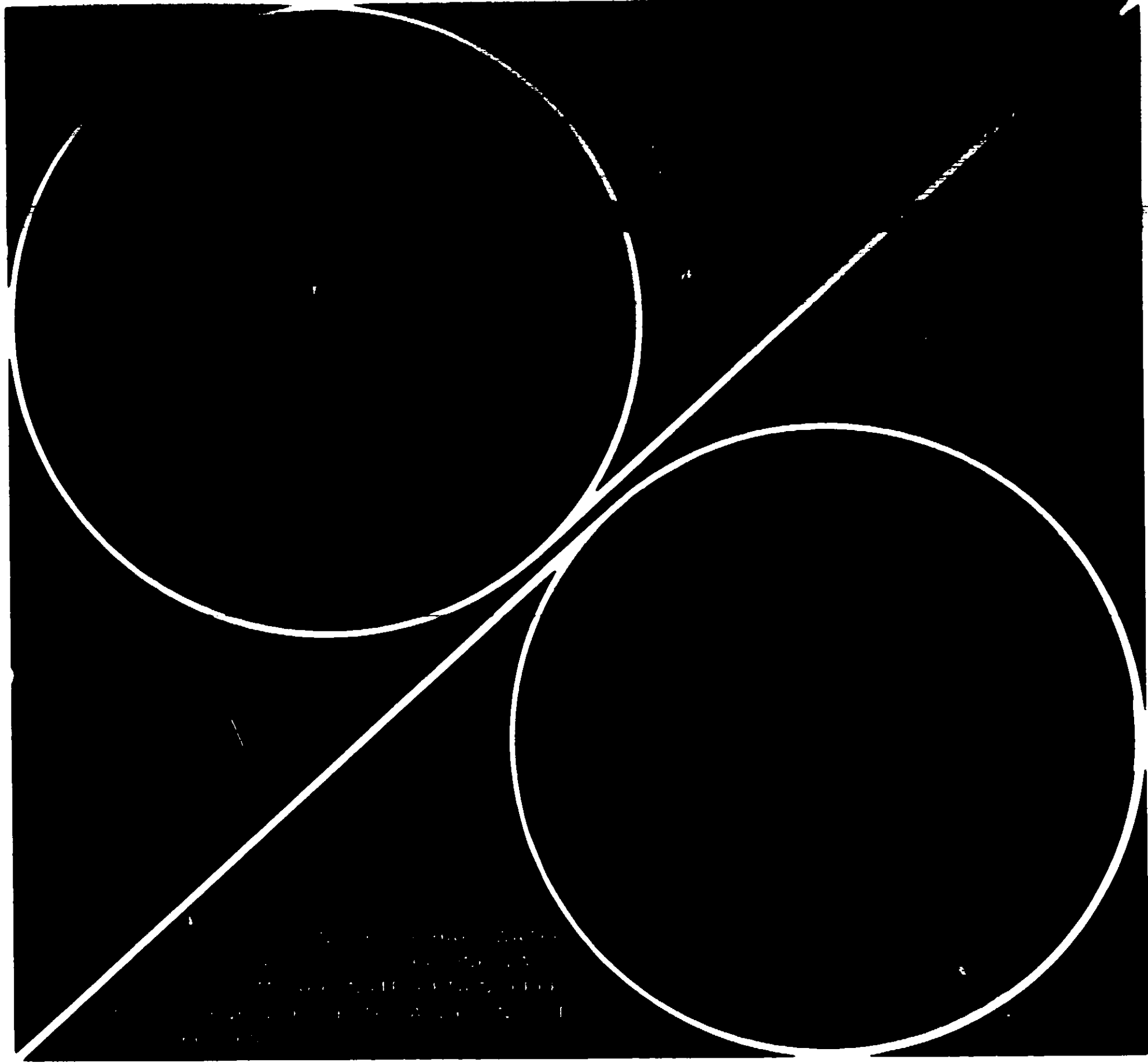
ACCEPTED
2-8-73
UNDER THE FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 4237-7 SUBJECT TO ATTACHED COMMENTS.



Advantage™ 256

COMPLETE
SANITATION
SYSTEM
IN ONE
OPERATION

**CLEANER
DISINFECTANT
DEODORANT**



FEDERAL INTERNATIONAL CHEMICALS
2451 S. ASHLAND AVE., CHICAGO, ILLINOIS 60608
Manufacturing facilities also in California, New Jersey and Canada

Advantage 256

COMPLETE
DISINFECTATION
SYSTEM
IN ONE
OPERATION



FOR USE IN
HOSPITALS
STAPHYLOCOCCAL
PSEUDOMONADAL
BACTERICIDAL
FUNGICIDAL
TUBERCULOCIDAL
VIRUCIDAL



IN SOFT OR HARD WATER
(A.O.A.C. - 500 ppm HARDNESS AS
CALCIUM CARBONATE) RETAINS EFFEC-
TIVENESS OF ELECTRICALLY CONDUCTIVE
FLOORS.



FEDERAL INTERNATIONAL CHEMICAL
CORPORATION
10000 W. CENTURY BLVD., SUITE 100
LOS ANGELES, CALIF. 90045

SKIN IRRITATION:

PROCEDURE: The primary skin irritative potential of a 1:128 aqueous dilution was evaluated in accordance with the Regulations for the Enforcement of the Federal Insecticide, Fungicide and Rodenticide Act, Interpretation 18 (Revised, *Federal Register*, Sept. 17, 1964) Section 362.116(c).

CONCLUSION: Following patch application of a 1:128 aqueous dilution of the sample, the Primary Irritation Index was found to be 0. Concentrate produces severe skin irritation.

EYE IRRITATION

PROCEDURE: The eye irritative potential of a 1:128 aqueous dilution of the test material was evaluated in accordance with the Regulations, Section 362.116(d).

CONCLUSION: Eye irritation was not observed in the 1:128 dilution of the sample and in the 1:128 dilution of the concentrate in six test rabbits. Concentrate produces severe eye irritation.

ORAL TOXICITY

PROCEDURE: The acute oral toxicity of the sample and concentrate was evaluated in accordance with the Regulations, Section 362.116(e).

CONCLUSION: The acute oral toxicity of the sample and concentrate was found to be low.

HOSPITAL USE AREAS AND SPECIFIC RECOMMENDATIONS

AUTOPSY ROOM — Mop floors and clean tables and equipment by sponge or spray with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. For persistent odors apply solution of ½ oz. Cleaner-Disinfectant per gallon of water to problem area. To cold disinfect instruments, clean and immerse in solution of ½ oz. Cleaner-Disinfectant per gallon of water for 10 minutes.

EMERGENCY ROOM — Mop floors and clean and disinfect hard surface areas with a solution of ½ oz. of Cleaner-Disinfectant per gallon of water. Wipe continuous use equipment with a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

CAFETERIA/DINING ROOM/COFFEE SHOP/KITCHEN — Mop floors with a solution of ½ oz. Cleaner-Disinfectant per gallon with special attention being given to heavy traffic areas. Wipe tables, chairs, counters and other working areas with a solution of ½ oz. Cleaner-Disinfectant per gallon. All food contact surfaces must be rinsed with potable water before reuse. Scrub garbage cans and other refuse containers to disinfect and remove offensive odors with a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

FOGGING — Fogging as an adjunct to routine disinfection—for hard to reach areas as an adjunct preceding regular cleaning & disinfecting procedures, surfaces & objects can be treated by fogging unoccupied rooms with a dilution of 1:84 or 1½ oz. Cleaner-Disinfectant in a gallon of water. For each sickroom approximately one gallon of fogging solution should be dispensed from a rotating fogger mounted on a 30 to 36 inch high table with the nozzle pointed upwards to a maximum angle after which the operator should allow a minimum of 2 hours after fogging has stopped before entering the room.

ISOLATION UNITS — Concurrent damp mopping of the floor area should be carried out with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. In preparing a room for a new patient fogging is often times recommended as an adjunct to regular cleaning and disinfecting.

LABORATORIES — Scrub or wipe equipment and floors with a solution of ½ oz. Cleaner-Disinfectant per gallon. Immerse instruments, animal cages and other apparatus in a solution of ½ oz. of Cleaner-Disinfectant per gallon water for 10 minutes.

LAUNDRY CHUTE — Spray inside of chute twice each month by employing a garden type sprayer containing a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

LAUNDRY — Presoak soiled linens to reduce incidence of contamination for a minimum of 10 minutes in a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

Presoaking will serve as an adjunct to the regular laundering operation in reducing the micro-organism population.

MATERNITY, NURSERY AND PEDIATRIC WARDS — Mop floors, wash walls with solution of ½ oz. Cleaner-Disinfectant per gallon of water. Sponge or wipe surfaces of furniture or other working areas with solution of ½ oz. Cleaner-Disinfectant per gallon of water.

OBSTETRICS AND OPERATING ROOMS — Between operations apply approximately one quart of a solution prepared with ½ oz. of Cleaner-Disinfectant per gallon on the floor around the operating table. Using a clean laundered mop-head, or a rotary floor machine equipped with scrubbing brush or pad, vigorously clean this area moving gradually to the periphery of the room and adding solution as required. Excess solution should be removed from the floor by wet pick-up vacuum machine. Attention should be given to wiping exposed surfaces such as equipment and walls with a solution of ½ oz. Cleaner-Disinfectant per gallon. Once a week, the walls, ceiling and light fixtures should be sprayed with a solution of ½ oz. Cleaner-Disinfectant per gallon applied with a low pressure, garden type sprayer. A solution of ½ oz. Cleaner-Disinfectant per gallon of water should be used to saturate a layer of plastic sponge in a floor installed foot-type as a bacteriostatic treatment for shoes or shoe coverings and through which all carts would have to be rolled in entering the operating room. The solution in the foot-type bath should be changed daily.

OUT PATIENT DEPARTMENT — Mop floors with solution of ½ oz. Cleaner-Disinfectant per gallon of water and use a like solution to wash furnishings, walls, and equipment of this high traffic area.

PATIENT ROOMS — Mop floors and wipe exposed surfaces such as tables, furnishings and fixtures with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. In preparing a room for a new patient, fogging is recommended as an adjunct to regular cleaning and disinfecting.

PUBLIC ROOMS AND CORRIDORS — Scrub floors by manual mopping or machine scrubber with solution of ½ oz. Cleaner-Disinfectant per gallon of water. Wipe exposed surfaces with solution of ½ oz. Cleaner-Disinfectant per gallon of water.

UTILITY AND WASHROOMS — Mop floors and wash walls and plumbing fixtures with solution of ½ oz. Cleaner-Disinfectant per gallon of water. To complete thorough deodorization the areas surrounding plumbing fixtures as well as toilets and urinals should be sprayed with a solution of ½ oz. Cleaner-Disinfectant per gallon of water and then allowed to dry.

SKIN IRRITATION

PROCEDURE: The acute skin irritation test was conducted in accordance with the regulations of the Federal Food, Drug, and Cosmetic Administration, 21 CFR 312.60 (a) and (b). The test was conducted in accordance with the method described in *Federal Register*, Sept. 17, 1964.

CONCLUSION:

The acute skin irritation test conducted on the sample produced no skin irritation effects in any of the six test rabbits. Concentrate produces eye damage.

EYE IRRITATION

PROCEDURE: The acute eye irritation test was conducted in accordance with the regulations of the Federal Food, Drug, and Cosmetic Administration, 21 CFR 312.60 (a) and (b). The test was conducted in accordance with the method described in *Federal Register*, Sept. 17, 1964.

HOSPITAL USE AREAS AND SPECIFIC RECOMMENDATIONS

AUTOPSY ROOM — Mop floors and clean tables and equipment by sponge or spray with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. For persistent odors apply solution of ½ oz. Cleaner-Disinfectant per gallon of water to problem area. To cold disinfect instruments, clean and immerse in solution of ½ oz. Cleaner-Disinfectant per gallon of water for 10 minutes.

EMERGENCY ROOM — Mop floors and clean and disinfect hard surface areas with a solution of ½ oz. of Cleaner-Disinfectant per gallon of water. Wipe continuous use equipment with a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

CAFETERIA/DINING ROOM/COFFEE SHOP/KITCHEN — Mop floors with a solution of ½ oz. Cleaner-Disinfectant per gallon with special attention being given to heavy traffic areas. Wipe tables, chairs, counters and other working areas with a solution of ½ oz. Cleaner-Disinfectant per gallon. All food contact surfaces must be rinsed with potable water before reuse. Scrub garbage cans and other refuse containers to disinfect and remove offensive odors with a solution of ½ oz. Cleaner-Disinfectant per gallon of water.

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ISOLATION UNITS — Concurrent damp mopping of the floor area should be carried out with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. In preparing a room for a new patient fogging is often times recommended as an adjunct to regular cleaning and disinfecting.

LABORATORIES — Scrub or wipe equipment and floors with a solution of ½ oz. Cleaner-Disinfectant per gallon. Immerse instruments, animal cages and other apparatus in a solution of ½ oz. of Cleaner Disinfectant per gallon water for 10 minutes.

LAUNDRY CHUTE — Spray inside of chute twice each month by employing a garden type sprayer containing a solution of ½ oz. Cleaner Disinfectant per gallon of water.

LAUNDRY — Presoak soiled linens to reduce incidence of contamination for a minimum of 10 minutes in a solution of ½ oz. Cleaner Disinfectant per gallon of water.

CONCLUSION: Eye application of 0.1 milliliter of a 1:128 aqueous dilution of the sample produced no eye irritative effects in any of the six test rabbits. Concentrate produces eye damage.

ORAL TOXICITY

PROCEDURE: The acute oral toxicity was determined on the finished product in accordance with the above cited Regulations, Section 362.116(b).

CONCLUSION: The acute oral LD₅₀ for male albino rats was found to be 2.71 gm/kg of body weight and 4.16 gm/kg of body weight for female rats.

Presoaking will serve as an adjunct to the regular laundering operation in reducing the micro-organism population.

MATERNITY, NURSERY AND PEDIATRIC WARDS — Mop floors, wash walls with solution of ½ oz. Cleaner-Disinfectant per gallon of water. Sponge or wipe surfaces of furniture or other working areas with solution of ½ oz. Cleaner-Disinfectant per gallon of water.

OBSTETRICS AND OPERATING ROOMS — Between operations apply approximately one quart of a solution prepared with ½ oz. of Cleaner-Disinfectant per gallon on the floor around the operating table. Using a clean laundered mop-head, or a rotary floor machine equipped with scrubbing brush or pad, vigorously clean this area moving gradually to the periphery of the room and adding solution as required. Excess solution should be removed from the floor by wet pick-up vacuum machine. Attention should be given to wiping exposed surfaces such as equipment and walls with a solution of ½ oz. Cleaner-Disinfectant per gallon. Once a week, the walls, ceiling and light fixtures should be sprayed with a solution of ½ oz. Cleaner-Disinfectant per gallon applied with a low pressure, garden type sprayer. A solution of ½ oz. Cleaner-Disinfectant per gallon of water should be used to saturate a layer of plastic sponge in a floor installed foot-type as a bacteriostatic treatment for shoes or shoe coverings and through which all carts would have to be rolled in entering the operating room. The solution in the foot-type bath should be changed daily.

OUT PATIENT DEPARTMENT — Mop floors with solution of ½ oz. Cleaner-Disinfectant per gallon of water and use a like solution to wash furnishings, walls, and equipment of this high traffic area.

PATIENT ROOMS — Mop floors and wipe exposed surfaces such as tables, furnishings and fixtures with a solution of ½ oz. Cleaner-Disinfectant per gallon of water. In preparing a room for a new patient, fogging is recommended as an adjunct to regular cleaning and disinfecting.

PUBLIC ROOMS AND CORRIDORS — Scrub floors by manual mopping or machine scrubber with solution of ½ oz. Cleaner-Disinfectant per gallon of water. Wipe exposed surfaces with solution of ½ oz. Cleaner Disinfectant per gallon of water.

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