3-16-73

9232-8

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 (1:100) in hot, cold, soft or hard water of up to 400 ppm water hardness. Contains biodegradable detergent. Dilute as directed using a 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
Staphylococcus aureus #6538	1:100
Staphylococcus aureus #14154	1:100
Pseudomonas aeruginosa PRD-10,#15442	1:100
Streptococcus hemolyticus #9342	1:100
Salmonella choleraesuis #10708	1:100
Diplococcus pneumoniae #6303	1:100
Escherichia coli #11229	
Proteus vulgaris #8427	1:100
Streptococcus fecalis #8043	1:100
Salmonella typhosa #6539	1:100

A.O.A.C.**(Fungicide Test)	Dilution
Trichophyton interdigitale #640	1:123
A.O.A.C.**(Tuberculocidal Test)	
Mycobacterium tuberculosis BCG	1:100
Adapted**(Virucidal Test)*	
Influenza Type A2, Taiwan Strain – Asian Flu	1:100
Herpes Simplex WI-38	1:100
A.O.A.C.**(Phenol Coefficients)	
Salmonella typhosa – – 8.9	
Staphylococcus aureus – 8.1	

**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, floor and other similar non-porous surfaces, use 1¼ ounces 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 1¼ ounces 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 1:34 or 3¼ 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 1¼ oz. per gallon disinfects Influenza A_2 (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. 321L

E. P. A. REGISTRATION NO. 9232-8

ADVANTAGE 100

CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL-PSEUDOMONACIDAL-BACTERICIDAL-FUNGICIDAL-TUBERCULOCIDAL-VIRUCIDAL* AT 1:100 DILUTION IN SOFT OR HARD WATER (A.O.A.C. 500 PPM HARDNESS AS CALCIUM CARBONATE). RETAINS EFFECTIVENESS OF ELECTRICALLY CONDUCTIVE FLOORS.

ACTIVE INGREDIENTS: Ortho-Phenylphenol 4.40%, Ortho-Benzyl-Para-Chlorophenol 2.40%, Para-Tertiary-Amylphenol 1.60%, Trisodium N-hydroxyethylenediaminetriacetate 0.24%

INERT INGREDIENTS: 91.36%

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

GENERAL USE DIRECTION:

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 1¼ ounces 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 1¼ ounces 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 1¼ ounces of Cleaner-Disinfectant per gallon of water.
4. To clean grease laden or grossly contaminated surfaces use 2½ ounces 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, gelatin 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.

2970-1-73

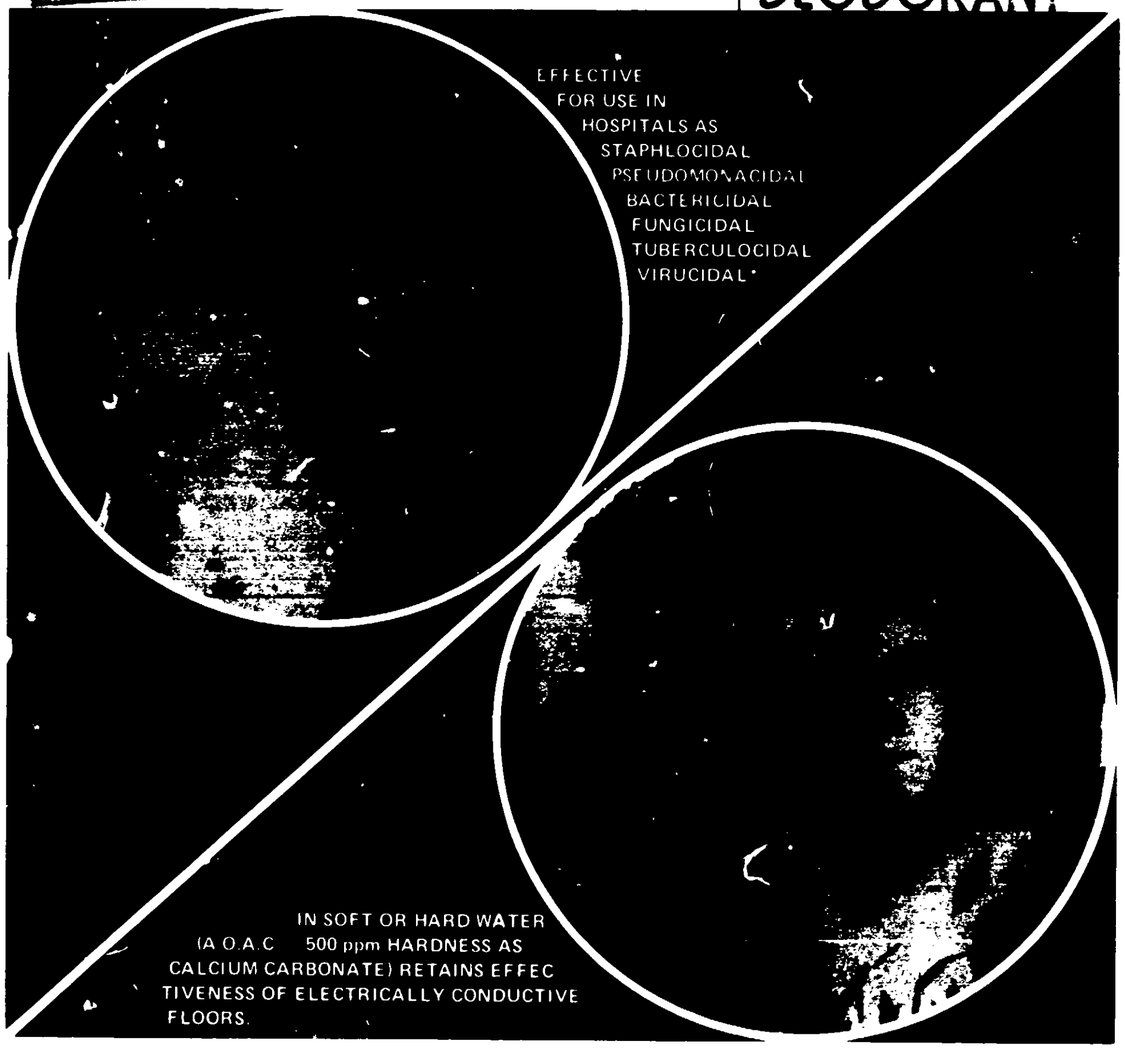
ACCEPTED
3-16 73
UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 2328 SUBJECT TO ATTACHED CONDITIONS.

RECEIVED JAN 23 1973 Pesticides Regulation Division, EPA

Advantage 100

COMPLETE SANITATION SYSTEM IN ONE OPERATION

DEODORANT



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

COMPLETE SANITATION SYSTEM IN ONE OPERATION

A soapless, synthetic detergent system with broad spectrum kill of most pathogenic micro-organisms both gram positive and gram negative. For outstanding cleaning and disinfecting in one operation.

Provides "hospital quality of sanitation" to all institutions on which the institutional sanitarian can base an effective program.

SUPPORTING DATA ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶

Staphlocidal – Pseudomonacidal – Bactericidal
Fungicidal – Tuberculocidal – Virucidal*
At one single dilution 1:100 (1¼ oz./gal.) soft or hard water (A.O.A.C. 500 ppm hardness as Ca CO_3).
Retains effectiveness of electrically conductive floors.

OUTSTANDING

- Triple phenolic system delivers broad spectrum kill in natural water up to 500 ppm hardness
- Triple synthetic detergent system provides superior cleaning in soft or hard water
- Produces a clear use solution (1:100) in up to 400 ppm water hardness to eliminate formation of undesirable film, scum or salts
- Effectively deodorizes surfaces contaminated by bacterial putrefaction
- Contains biodegradable detergents and is non-flammable
- Safe for use on electrically conductive floors
- Will not dull shiny floor finishes.
- E.P.A. Registration No. 9232-8

ACCEPTED
3-[illegible]-72
UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 9232-8

CHEMICAL AND PHYSICAL PROPERTIES

Detergency – Blend of 3 synthetic detergents lift, emulsify and hold soil in suspension.
Residual Bacteriostatic Activity – Non-volatile characteristics produce a residual bacteriostatic activity to continue deodorant and germ growth inhibiting properties after use. The degree of residual bacteriostatic activity will vary due to humidity, temperature and amount of recontamination.
Deodorizing – Deodorizes surfaces by killing the vegetative forms of putrefactive bacteria.
Toxicity – Skin and eye tests on rabbits displayed no irritation at 1:50 aqueous dilution, however, the use of protective gloves is recommended for manual application. Concentrate produces eye damage and severe skin irritation.
Use On Conductive Floors – Examination proved no adverse effect.
Film Residue – No scum or other unsightly residue.
Flammability – Non flammable.

pH Diluted 1:100 – 9.8 ± 0.2
Odor – Pleasant
Color – Medium amber
Discoloration – Non staining to ordinary surfaces.
Solubility – Excellent in hot, cold, hard or soft water
Cold Stability – No separation, 60 days at 34°F
Freeze/Thaw Stability – No separation, 3 cycles
Heat Stability – No separation, 60 days at 125°F
Corrosion Factor – Non corrosive to metals in normal use exposure
Foam Test – Moderate foam.
Viscosity – Free flowing liquid.
Weight Per Gallon – 8.6 ± 0.05
Biodegradability – Detergent base classified biodegradable

DIRECTIONS FOR USE:

HOSPITAL:

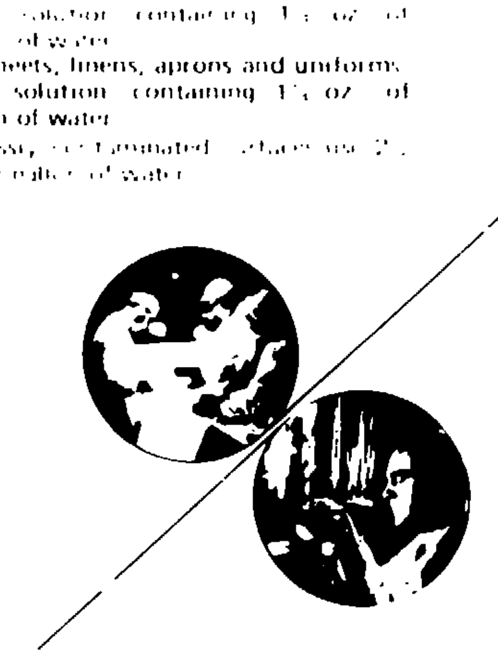
1. To clean, disinfect and deodorize walls, floors, and other similar non-porous surfaces use 1¼ oz. of Cleaner-Disinfectant per gallon of water.
2. To clean, disinfect and deodorize cement block, scarred furniture and other similar porous and heavily contaminated surfaces use 1¼ oz. of Cleaner-Disinfectant 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 1:34 or 3¾ oz. 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 1¼ oz. per gallon disinfects Influenza A_2 (A [illegible]) carried on inanimate environmental surfaces.

GENERAL:

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 1¼ 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 1¼ oz. of Cleaner Disinfectant per gallon of water.
3. To disinfect fabrics such as sheets, linens, aprons and uniforms. Soak for 10 minutes in solution containing 1¼ oz. of Cleaner Disinfectant per gallon of water.
4. To [illegible] grease [illegible] contaminated surfaces use 2[illegible] of Cleaner Disinfectant per gallon of water.

METHODS OF APPLICATION:

- To guarantee complete disinfection and satisfactory cleaning [illegible] fresh clean solution of Cleaner Disinfectant to each new area to be cleaned.
- Clean solution should be in contact with surface for a period of 10 minutes if sprayed, wet mopped or sponged manually.
- To insure clean solution during entire operation these two methods of application are recommended:
  1. Spray, followed by mopping or brushing and wet vacuum pick-up [illegible] dirty solution.
  2. Mop, using two buckets. Wring excess dirty solution into empty bucket and return wrung out mop to fresh solution bucket.



SUPPORTING DATA

AT 1:100 (1¼ oz./gal.)

PROCEDURE The sample was tested in conformance with the Use Dilution Test Method of A.O.A.C. 11th Edition, chapter 4, 4.007-4.0[illegible] adding the criterion of hard water by diluting the sample with A.O.A.C. synthetic hard water of 500 ppm hardness calculated [illegible].

CONCLUSION [illegible] at the recommended use dilution of 1:100 [illegible] A [illegible] Bacteria [illegible].

ATCC#	Bacteria	Pos Tubes	Neg Tubes	Gram Reaction	Appearance of Bacteria
[illegible]	Staphylococcus aureus		[illegible]		
[illegible]	Pseudomonas aeruginosa	[illegible]			
[illegible]	Salmonella choleraesuis				

ATCC#	Bacteria
[illegible]	Staphylococcus aureus
[illegible]	Salmonella typhosa
[illegible]	Escherichia coli
[illegible]	Streptococcus fecalis
[illegible]	Proteus vulgaris
[illegible]	Diplococcus pneumoniae
[illegible]	Streptococcus hemolyticus

PROCEDURE The phenol coefficient of the sample was determined in conformance with the Phenol Coefficient Method of A.O.A.C. 11th Edition, Chapter 4, 4.001-4.006, adding the criterion of [illegible] diluting the sample with A.O.A.C. [illegible] hard water of 500 ppm [illegible]. *Staphylococcus aureus* ATCC [illegible] *Salmonella typhosa* [illegible] 6539.

CONCLUSION [illegible]
Salmonella typhosa [illegible]
Staphylococcus aureus [illegible]

Sample Identification	Organism	Critical Killing Dilution Sample	Critical Killing Dilution Phenol	Phenol Coefficient
Sample 1	S. aureus ATCC [illegible]	1:644	1:[illegible]	[illegible]
Sample 2	S. aureus	1:484	1:60	[illegible]
Sample 1	S. typhosa ATCC No. 6538	1:904	[illegible]	[illegible]
Sample 2	S. typhosa ATCC No. 6539	1:[illegible]	[illegible]	[illegible]

PROCEDURE The fungicidal activity of the sample was [illegible] in conformance with the Fungicidal Test A.O.A.C. 11th Edition [illegible] 4.1012-1022 adding the additional criterion [illegible] diluting the sample with A.O.A.C. synthetic hard water [illegible] 500 [illegible] hardness as [illegible] *Trichophyton interdigitale* ATCC 9533 (NIH 640) [illegible] 1:100.

CONCLUSION Duplicate test results [illegible] critical killing dilution of 1:123 providing a margin of safety when [illegible].

Sample Identification	Critical Killing Dilution Sample	Critical Killing Dilution Phenol
Sample 1	1:12[illegible]	[illegible]
Sample 2	1:162	[illegible]

AT 1:100 (1¼ oz./gal.)

PROCEDURE The tuberculocidal activity was determined in conformance with the A.O.A.C. 11th Edition Chapter 4, 4.048-4.050 [illegible] sample with A.O.A.C. [illegible] 500 ppm hardness [illegible] *Mycobacterium tuberculosis* [illegible]

CONCLUSION [illegible] 1:100

Sample Identification	Dilution	Carriers Exposed	Carriers Showing Growth in Medium #1	#2	#3	Total Number of Positive Carriers*
Sample 1	1:100	10	0	0	[illegible]	0
Phenol	1:[illegible]	10	0	0	0	0

Medium #1 [illegible] *Official Methods of Analysis of the A.O.A.C.*
[illegible] #2 [illegible] #3 [illegible]

AT 1:100 (1¼ oz./gal.)

PROCEDURE Virucidal activity was determined [illegible] Type A (Human Subtype A_2 Taiwan [illegible]) [illegible] Herpes Simplex WI 38 [illegible]

CONCLUSION [illegible] 1:100 [illegible] Type A [illegible] Herpes Simplex [illegible]

RESULTS

INFLUENZA TYPE A, HUMAN SUBTYPE A_2 TAIWAN STRAIN ASIAN FLU

TITRATION OF INFLUENZA TYPE A CULTURE

[illegible]

TITRATION OF UNTREATED CONTROL CARRIER

[illegible]

Sample Identification	Dilution	No. of Carriers Per Test	No. Embryos Inoculated Per Test	Deaths Within 24 Hours	Total Survival
Sample #1	1:100	[illegible]	[illegible]		[illegible]
Sample #2	1:100	10	60	1[illegible]	[illegible]

* [illegible]
** Considered [illegible]

HERPES SIMPLEX WI 38

TITRATION OF HERPES SIMPLEX VIRUS CULTURE

[illegible]

TITRATION OF UNTREATED CONTROL CARRIER

[illegible]

Sample Identification	Dilution	No. of Carriers Per Test	No. Tissue Culture Flask Inoculated Per Test	Number Showing CPE**
Sample #1	1:100	[illegible]	[illegible]	
Sample #2	1:100	[illegible]	[illegible]	

* TCID [illegible]
** CPE [illegible]

PROCEDURE [illegible] 1:100 (1¼ oz./gal.) [illegible]

CONCLUSION [illegible]

SKIN IRRITATION
PROCEDURE
CONCLUSION
EYE IRRITATION
PROCEDURE
CONCLUSION
ORAL TOXICITY
PROCEDURE
CONCLUSION

HOSPITAL USE AREAS AND SPECIFIC RECOMMENDATIONS

AUTOPSY ROOM – Mop floors and clean tables and equipment by sponge or spray with a solution of 1¼ oz. Cleaner-Disinfectant per gallon of water. For persistant odors apply solution of 1¼ oz. Cleaner-Disinfectant per gallon of water to problem area. To cold disinfect instruments, clean and immerse in solution of 1¼ 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 1¼ oz. of Cleaner-Disinfectant per gallon of water. Wipe continuous use equipment with a solution of 1¼oz. Cleaner-Disinfectant per gallon of water.

CAFETERIA/DINING ROOM/COFFEE SHOP/KITCHEN – Mop floors with a solution of 1¼ oz. Cleaner Disinfectant per gallon with special attention being given to heavy traffic areas. Wipe tables, chairs, counters and other working areas with solution of 1¼ 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 1¼ 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 room, with a dilution of 1:32 or 3¼ 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 [illegible] should be carried out with a solution of 1¼ 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 1¼ oz. Cleaner Disinfectant per gallon. Immerse contaminated glassware and other articles in a solution of 1¼ 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 1¼ oz. Cleaner Disinfectant per gallon of water.

LAUNDRY – Presoak soiled [illegible]. 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 1¼ oz. Cleaner-Disinfectant per gallon of water. Sponge or wipe surfaces of furniture or other work areas with solution of 1¼ oz. Cleaner Disinfectant per gallon of water.

OBSTETRICS AND OPERATING ROOMS – Between operations apply approximately one quart of a solution prepared with 1¼ 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 1¼ oz. Cleaner Disinfectant per gallon. Once a week, the walls, ceiling and light fixtures should be sprayed with a solution of 1¼ oz. Cleaner Disinfectant per gallon applied with a low pressure, garden type sprayer. A solution of 1¼ 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 1¼ oz. Cleaner Disinfectant per gallon. Wipe 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, furniture and fixtures with a solution of 1¼ 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 scrubbing with solution of 1¼ oz. Cleaner Disinfectant per gallon of water. Wipe exposed surfaces with solution of 1¼ oz. Cleaner Disinfectant per gallon of water.

UTILITY AND WASHROOMS – Mop floors and wash [illegible] and plumbing fixtures with solution of 1¼ oz. Cleaner Disinfectant per gallon of water. To complete thorough deodorization [illegible].