

DIRECTIONS FOR USE

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

To be used in hospitals in the following areas as a disinfectant: operating rooms, patient care rooms and facilities, recovery, anesthesia, ER, radiology, X-ray cat labs, newborn nurseries, orthopedics, respiratory therapy, surgical centers, labs, blood collection rooms, central supply, housekeeping and janitorial rooms, nursing homes, doctors' offices and labs, dentists' offices and labs (dental operatories).

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 pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

BACTERICIDAL STABILITY OF USE-DILUTION: Tests confirm that this product, when diluted in 400 ppm hard water and in the presence of 5% soil load, remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enteric* for up to 64 days when stored in a sealed container at room temperature.

If the use-dilution product becomes visibly dirty or contaminated, the use-dilution must be discarded and a fresh product prepared. Always use clean, properly labeled dry containers when diluting the product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails. Use-dilution product in open containers must be prepared daily or more often if the solution becomes visibly dirty or diluted or contaminated.

DISINFECTION: PREPARATION OF USE SOLUTION: For water hardness up to 300 ppm add 2 ounces per gallon (16 milliliters per liter) of water (1:64) to disinfect hard, non-porous surfaces [glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed stone, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl]. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or other mechanical sprayer devices. Treated surfaces must remain wet for 10 minutes. Let air dry. Prepare a fresh solution for each use. This product is effective in hard water up to 300 ppm hardness. This product, in the presence of a 98% organic soil load, diluted 1:64 (2 ounces per gallon) in 791 ppm Hard Water, demonstrated efficacy within 10 minutes against the following organisms: *Staphylococcus aureus*, *Salmonella enterica*. Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required. Note that the organisms referenced in the above statement are not associated with blood spills. For blood spills, the surface must be thoroughly cleaned before applying the disinfectant.

Disinfection Performance: At 2 ounces of this product to one gallon of water use level, this product is bactericidal and fungicidal on hard inanimates surfaces modified in the presence of 5% organic serum with a 10 minute contact time against:

Isolates From AIDS Patients

1. *Candida albicans*
2. *Cryptococcus neoformans*
3. *Pseudomonas aeruginosa*
4. *Staphylococcus aureus*
5. *Streptococcus pneumoniae*

Gram Positive Clinical Isolates

7. *Enterococcus faecalis*
8. *Micrococcus luteus*
9. *Staphylococcus aureus*
10. *Staphylococcus aureus* (Toxic shock)
11. *Staphylococcus epidermidis*
12. *Staphylococcus saprophyticus*
13. *Streptococcus haemolyticus*
14. *Streptococcus pyogenes*

Gram Negative Clinical Isolates

15. *Acinetobacter calcoaceticus* var. *anitratus*
16. *Acinetobacter calcoaceticus* var. *lwoffi*
17. *Bordetella bronchiseptica*
18. *Brevibacterium diminuta*
19. *Burkholderia cepacia*
20. *Enterobacter agglomerans*
21. *Enterobacter cloacae*
22. *Enterobacter gergoviae*
23. *Enterobacter liquefaciens*
24. *Escherichia coli* (Urinary)
25. *Escherichia coli* (Wound)
26. *Flavobacterium meningosepticum*
27. *Hafnia alvei*
28. *Klebsiella oxytoca*
29. *Klebsiella pneumoniae*
30. *Morganella morganii*
31. *Protus mirabilis*
32. *Protus vulgaris*
33. *Pseudomonas aeruginosa*
34. *Pseudomonas fluorescens*
35. *Pseudomonas pseudomallei*
36. *Pseudomonas putida*
37. *Pseudomonas stutzeri*
38. *Serratia marcescens*
39. *Sphingomonas paucimobilis*

Other Bacteria

40. *Acetivibrio pleuropneumoniae*
41. *Actinomyces pyogenes*
42. *Bacillus cereus*
43. *Bacteroides fragilis*
44. *Corynebacterium ammoniagenes* (Brevibacterium ammoniagenes)
45. *Bordetella bronchiseptica*
46. *Burkholderia picketti*
47. *Campylobacter jejuni*
48. *Chryseobacterium luteola*
49. *Corynebacterium pseudotuberculosis*
50. *Enterobacter aerogenes*
51. *Enterococcus faecalis*
52. *Enterococcus faecium*
53. *Enterococcus hirae*
54. *Escherichia coli*
55. *Escherichia coli* strain 0157:H7
56. *Escherichia vulneris*
57. *Haemophilus influenzae*

58. *Klebsiella pneumoniae*
59. *Listeria monocytogenes*
60. *Pasteurella haemolytica*
61. *Pseudomonas aeruginosa*
62. *Rhodococcus equi*
63. *Salmonella enterica*
64. *Salmonella schottmulleri*
65. *Salmonella typhi*
66. *Shigella dysenteriae*
67. *Staphylococcus aureus*
68. *Staphylococcus aureus*
69. *Staphylococcus capitis*
70. *Staphylococcus hominis*
71. *Staphylococcus simulans*
72. *Stenotrophomonas maltophilia*
73. *Streptococcus equi* var. *equi*
74. *Streptococcus equi* var. *zooepidemicus*
75. *Streptococcus pneumoniae* (PRSP)
76. *Streptococcus pyogenes*
77. *Streptococcus salivarius*
78. *Yersinia enterocolitica*

Pathogenic Fungi

79. *Trichophyton mentagrophytes*

Environmental Fungi

80. *Aspergillus candidus*
81. *Aspergillus niger*
82. *Penicillium chrysosporium*
83. *Penicillium oxalicum*
84. *Penicillium spinulosum*
85. *Ulocladium sp.*

Antibiotic Resistant Gram (-) Rods

86. *Pseudomonas aeruginosa* (Sulfa, Cefotaxime, Nitrofurantoin, Tetracycline, Amikacin, Ampicillin, Cephalothin and Bacine Resistant)
87. *Escherichia coli* (Sulfa, Tetracycline, Ampicillin & Penicillin Res.)
88. *Klebsiella oxytoca* (Ampicillin, Sulfanilamide & Tetracycline Resistant)
89. *Klebsiella pneumoniae* type 1 (Cephalothin, Ampicillin, Sulfa & Tetracycline Resistant)
90. *Morganella morganii* (Penicillin & Tetracycline Resistant)
91. *Enterobacter agglomerans* (Ampicillin & Sulfanilamide Res.)
92. *Salmonella enteric* (Antibiotic Resistant)
93. *Enterobacteriaceae* with extended beta-lactamase resistance (Ampicillin and Piperacillin Resistant)

Antibiotic Resistant Gram (+) Rods

94. *Enterococcus faecalis* (Vancomycin Res. -VRE)
95. *Enterococcus faecium* (Vancomycin Res. -VRE)
96. *Staphylococcus aureus* (Methicillin-MRSA, Community Associated Methicillin Resistant - CA-MRSA PVL Positive)
97. *Staphylococcus aureus* (CA-MRSA Genotype USA 400)
98. *Staphylococcus aureus* (Penicillin G, Penicillin, Ampicillin, Cefazolin, Cefatoxime, Chloramphenicol, Ciprofloxacin, Clindamycin, Erythromycin, Oxacillin, Rifampin, Tetracycline Resistant)
99. *Staphylococcus aureus* (Vancomycin Resistant - VRSA)
100. *Staphylococcus aureus* (Vancomycin Resistant Intermediate-VISA)

101. *Staphylococcus epidermidis* (Ampicillin and Drug Resistant)

Virucidal* Performance: At 2 ounces per gallon (1:64) use level, this product was evaluated in the presence of 5% serum with a 10 minute contact time unless otherwise noted below and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Human Viruses

102. Adenovirus type 2
103. Cytomegalovirus
104. HBV (Hepatitis B Virus)
105. HCV (Hepatitis C Virus)
106. Herpes Simplex type 1 Virus
107. Herpes Simplex type 2 Virus
108. HIV-1 (AIDS Virus)
109. Human Coronavirus
110. Influenza A/Brazil Virus
111. Influenza A/Victoria (H3N2) Virus
112. Influenza A2-Asian Virus
113. Influenza B Virus (Allen strain)
114. Influenza C Virus (Taylor strain)
115. Measles Virus
116. Parainfluenza type 1 Virus
117. Poliovirus type 1 (Chat strain)
118. Respiratory Syncytial Virus
119. Rotavirus
120. Vaccinia Virus

Animal Premise Virucidal* Performance:

At 2 ounces per gallon (1:64) use level, this product was evaluated in the presence of 5% serum with a 10 minutes contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Non-Human Viruses

121. Avian Influenza/Turkey/Wisconsin Virus
122. Canine Coronavirus
123. Canine Distemper Virus
124. Canine Herpesvirus
125. Equine Herpesvirus
126. Equine Influenza Virus
127. Feline Calicivirus
128. Norovirus
129. Feline Infectious Peritonitis Virus
130. Infectious Bovine Rhinotracheitis Virus (IBR)
131. Newcastle Disease Virus
132. Porcine Parvovirus
133. Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)
134. Porcine Rotavirus
135. Pseudorabies Virus
136. Transmissible Gastroenteritis Virus (TGE)
137. T1 bacteriophage
138. T4 bacteriophage
139. Vesicular Stomatitis Virus (VSV)
140. Bovine Viral Diarrhea Virus (BVDV)
141. Avian Influenza Virus (H5N1)



QUATRA-CIDE

**BROAD SPECTRUM DISINFECTANT
HOSPITAL CLEANS AS IT
DISINFECTANT DISINFECTS
GERMICIDAL**

**CLEANER • DISINFECTANT • DETERGENT • FUNGICIDE
DEODORIZER • VIRUCIDE* • MILDEWSTAT**

ACTIVE INGREDIENTS:

Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	2.37%
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	2.37%
INERT INGREDIENTS.....	95.26%

TOTAL.....100.00%

EPA Reg. No. 61178-1-12204 EPA Est. No. 12204-NE-1

**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wear protective eyewear (goggles, face shield or safety glasses). Wear protective clothing and rubber gloves. Avoid contamination of food. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT - FIRST AID

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.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a 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. For additional medical advice, call the following emergency phone number 1-800-222-1222

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

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic invertebrates. 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 discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS: Combustible. Do not use or store near heat or open flame.

Sold By

M-10

**MID-AMERICAN RESEARCH CHEMICAL CORP.
P.O. BOX 927 COLUMBUS, NE 68602-0927**

DIRECTIONS FOR USE (Continued)

NON-ACID TOILET BOWL (AND URINAL) DISINFECTANT/CLEANER DIRECTIONS: Remove gross filth prior to disinfection. From Concentrate: Add 2 ounces (16 milliliters per liter) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand for 10 minutes and flush.

SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS: Add 2 ounces per gallon of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 1 minute. Allow to air dry. This product is not for use to disinfect, sanitize or clean eating utensils, glassware and dishes.

MOLD AND MILDEW CONTROL DIRECTIONS: Add 2 ounces per gallon of water to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear(s).

FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT: It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution) for a contact time of 10 minutes.

FUNGICIDAL: At 2 ounces per gallon use-level, QUATRA-CIDE is effective against the pathogenic fungus *Trichophyton mentagrophytes* (athlete's foot fungus - cause of Ringworm) on inanimate surfaces in the presence of 5% organic soil load and 300 ppm water hardness as CaCO3 in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Contact time-10 minutes.

This product, in the presence of a ~100% organic soil load, diluted 1:64 (2 ounces per gallon) in 395 ppm Hard Water, demonstrated efficacy within 10 minutes against the following pathogenic fungus: *Trichophyton mentagrophytes*. Note that the organism referenced in the above statement is not associated with blood spills. For blood spills, the surface must be thoroughly cleaned before applying this product.

VIRUCIDAL*: When used on inanimate, hard, non-porous, environmental surfaces at 2 ounces per gallon of water for a 10 minute contact time (5% organic soil), except for Poliovirus type 1 (Chat strain); which requires a 30 minute contact time (5% organic soil) and HIV-1 which requires only a 30 second contact time.

KILLS HIV, HCV & HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with 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), Hepatitis C Virus (HCV) and Hepatitis B Virus.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HCV & HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

PERSONAL PROTECTION: Specific barrier protection times to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks and eye coverings. **CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to Federal, State and local regulations for infectious waste disposal. **CONTACT TIME:** Leave surfaces wet for 30 seconds for HIV-1 and 10 minutes for HCV and HBV. The contact time for viruses, fungi and bacteria listed on this label is 10 minutes except for Polio virus Type 1 (Chat strain) which is 30 minutes.

CARPET DEODORIZER AGAINST ODOR-CAUSING BACTERIA, FOR INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE: This product cleans and deodorizes the carpet (by controlling/reducing the growth of odor causing bacteria). It can be used in industrial, institutional and commercial areas such as motels, hotels, chains, nursing homes and hospitals. Vacuum carpet thoroughly prior to application. Mix 1 ounce of product per gallon of water. Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 2 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon. For use on washable synthetic fibers. Do not use on wool. Test color fastness of carpet before use. Apply diluted product to a small concealed spot, then rub with a clean white cloth. If color changes or transfers to cloth, a water-based product should not be used. After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse. **Note:** This product should not be mixed with other cleaning products.

LAUNDRY ADDITIVE (RESIDUAL BACTERIOSTATIC AND RESIDUAL SELF SANITIZING ACTIVITY UNDER CONDITIONS OF HIGH RELATIVE HUMIDITY OR WET CONTAMINATION) AGAINST ODOR-CAUSING BACTERIA FOR INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE: This product sanitizes laundry such as bedspreads, sheets, pillowcases, diapers, towels, and other wet linens by controlling and/or reducing the growth of odor-causing bacteria. It can be used in industrial and institutional areas such as motels, hotel chains, nursing homes and hospitals. This product is used as an addition to the final rinse cycle.

Add 8 fluid ounces of this product per 100 lbs. of dry laundry to the final rinse cycle water (200 ppm). If the product is to be diluted prior to adding it to the final rinse cycle, use 1 ounce per gallon of water and then add to the washwheel in the final rinse cycle.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **STORAGE:** Do not store on side. Avoid creasing or impacting of side walls. Store securely in closed original container. Avoid storage at temperature extremes or in sunlight. Avoid shipping or storing below freezing. If product freezes, thaw at room temperature and shake gently to remix components. Use locked storage in an area that will prevent cross-contamination of other pesticides, fertilizer, food and feed. Store in locked area inaccessible to children.

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 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 container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Discard rinsate. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.**

RU03-15

Net Contents: _____