

Buckeye®

ONE-STEP DISINFECTANT, GERMICIDAL DETERGENT AND DEODORANT

SANI-CARE

QUAT-128™



Disinfectant • Bactericidal • Fungicidal • *Virucidal • Mildewstatic • Pseudomonacidal • Salmonellacidal • Staphylocidal • One-step cleaning, disinfecting and deodorizing • Effective in 400 ppm hard water with the presence of 5% organic soil load • No rinse formula • pH neutral • Safe on floor finish • E.P.A. Registered • Pleasant fragrance • Economical • For use on all hard surfaces • Easy to use • Solvent free

Effectively Kills: HIV-1 (AIDS virus) • HBV (Hepatitis B Virus) • HCV (Hepatitis C Virus) • Herpes Simplex 1 & 2 • German Measles • Athlete's Foot Fungus • Influenza • Vaccinia • Adenovirus • Vancomycin Resistant Enterococcus faecalis (VRE) • Methicillin Resistant Staphylococcus aureus (MRSA) • Gram-negative & Gram-positive pathogens

SANICARE QUAT-128

SANICARE QUAT-128 is a germicidal detergent and deodorant designed for use in industrial, institutional, and health care settings at 1 oz. per gallon of water.

SANICARE QUAT-128 is effective in up to 400 ppm hard water plus 5% organic serum. It offers labor saving, one-step cleaning, disinfecting and deodorizing.

SANICARE QUAT-128 kills HIV-1 (AIDS virus), HBV (Hepatitis B Virus), HCV (Hepatitis C Virus), Herpes Simplex 1 and 2, and a broad spectrum of bacteria, fungi and viruses. (Test results found inside.)



Effective pH neutral, no-rinse cleaner

Ideal for routine germicidal cleaning and floor care maintenance.

SANICARE QUAT-128 is a true pH neutral, germicidal cleaner. With a use-dilution pH of 7.0 ± 0.2 , QUAT-128 will not attack floor finish.

Special detergents effectively remove dirt and soil without harming the finish. SANICARE QUAT-128 requires no rinsing. This means more time may pass between labor intensive stripping and recoating procedures.

In using SANICARE QUAT-128, floors and other hard surfaces come cleaner and shine longer.



HIV-1 (AIDS virus), HBV (Hepatitis B Virus) and HCV (Hepatitis C virus)

SANICARE QUAT-128 KILLS HIV-1 (AIDS VIRUS), HBV (HEPATITIS B VIRUS) AND HCV (HEPATITIS C VIRUS) OF PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood/body fluids, and in which the surfaces/objects likely to be soiled with blood/body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).



SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 (AIDS VIRUS) OF HBV OR HCV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS:

Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings, as appropriate, must be worn during all cleaning of blood/body fluids and during decontamination procedures.

Cleaning Procedures: Blood/body fluids must be thoroughly cleaned from surfaces/objects before application of **SANICARE QUAT-128**.

Contact Time: HIV-1 (AIDS virus) is inactivated after a contact time of 4 minutes at 25°C (77°F) (room temperature). HBV and HCV are inactivated after a 10 minute contact time. Use a 10-minute contact time for other viruses, fungi, and bacteria listed.

Disposal of Infectious Materials: Blood/body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Human Immunodeficiency Virus (HIV-1)

Evaluation of **SANICARE QUAT-128** for virucidal efficacy against dried virus (5% organic soil load) after a 4 minute exposure to a 1:128 dilution in synthetic hard water (400 ppm).

CPE Assay with MT2 Cells (Day 7)
Cytopathic-Cytotoxic Effects
(No. Positive/No. Inoculated)

Dilution Inoculated	Virus Control	Sample + Virus				Non-Virucidal Level of Disinfectant		Cytotoxicity Controls	
		Lot A	Lot B	Lot A	Lot B	Lot A	Lot B		
10 ⁻¹	4/4	Toxic	Toxic	Toxic	Toxic	4/4	4/4	4/4	4/4
10 ⁻²	4/4	Toxic	Toxic	Toxic	Toxic	4/4	4/4	4/4	4/4
10 ⁻³	4/4	0/4	0/4	4/4	4/4	0/4	0/4	0/4	0/4
10 ⁻⁴	4/4	0/4	0/4	4/4	4/4	0/4	0/4	0/4	0/4
10 ⁻⁵	4/4	a	a	4/4	4/4	a	a	a	a
10 ⁻⁶	2/4	a	a	0/4	0/4	a	a	a	a
Virus Titer (-Log ₁₀ TCID ₅₀)	6.0	≤2.5	≤2.5	5.5	5.5				
Cytotoxicity Titer (-Log ₁₀ TCID ₅₀)						2.5	2.5	2.5	2.5
Reduction of Virus Titer by test sample (-Log ₁₀ TCID ₅₀)		≥3.5	≥3.5						

a = Virus not tested

Conclusion: **SANICARE QUAT-128** demonstrated virucidal activity against HIV-1 (AIDS virus) in the CPE assay with MT2 cells.



Bactericidal Gram-Negative

Bactericidal against several **gram-negative pathogens** according to the *AOAC Use Dilution Test* (current edition) modified in the presence of 5% organic serum and 400 ppm water hardness (calculated as CaCO₃). Dilution 1:128

Organism	Sample	# Carriers	# of Positives	Neutralization Control
Pseudomonas aeruginosa	A	60	0	+
	B	60	0	+
	C	60	0	+
Salmonella choleraesuis	A	60	0	+
	B	60	0	+
	C	60	0	+
Enterobacter aerogenes	A	10	0	+
	B	10	0	+
Enterobacter cloacae	A	10	0	+
	B	10	0	+
Salmonella enteritidis	A	10	0	+
	B	10	0	+
Salmonella typhimurium	A	10	0	+
	B	10	0	+
Salmonella typhi	A	10	0	+
	B	10	0	+
Legionella pneumophila	A	10	0	+
	B	10	0	+
Klebsiella pneumoniae	A	10	0	+
	B	10	0	+
Proteus vulgaris	A	10	0	+
	B	10	0	+
Proteus mirabilis	A	10	0	+
	B	10	0	+
Serratia marcescens	A	10	0	+
	B	10	0	+
Shigella flexneri	A	10	0	+
	B	10	0	+
Shigella sonnei	A	10	0	+
	B	10	0	+
Escherichia coli	A	10	0	+
	B	10	0	+
Acinetobacter calcoaceticus	A	10	0	+
	B	10	0	+
Bordetella bronchiseptica	A	10	0	+
	B	10	0	+
Chlamydia psittaci	A	10	0	+
	B	10	0	+
Fusobacterium necrophorum	A	10	0	+
	B	10	0	+
Listeria monocytogenes	A	10	0	+
	B	10	0	+
Pasteurella multocida	A	10	0	+
	B	10	0	+

Bactericidal Gram-Positive

Bactericidal against several **gram-positive pathogens** according to the *AOAC Use Dilution Test* (current edition) modified in the presence of 5% organic serum and 400 ppm water hardness (calculated as CaCO₃). Dilution 1:128

Organism	Sample	# Carriers	# of Positives	Neutralization Control
Staphylococcus aureus	A	60	0	+
	B	60	0	+
	C	60	0	+
Streptococcus pyogenes	A	10	0	+
	B	10	0	+
Streptococcus faecalis	A	10	0	+
	B	10	0	+

Bactericidal Antibiotic Resistant

SANICARE QUAT-128 is also bactericidal against the following antibiotic resistant bacteria according to the *AOAC Use Dilution Test* in hard water up to 400 ppm (calculated as CaCO₃) in the presence of 5% organic serum. Dilution 1:128

Enterococcus faecalis-Vancomycin Resistant (VRE)

Escherichia coli

Klebsiella pneumoniae

Pseudomonas aeruginosa

Staphylococcus aureus-Methicillin Resistant (MRSA) and other antibiotic resistant strains

Staphylococcus aureus-Vancomycin Intermediate Resistant (VISA)

Staphylococcus epidermidis

Streptococcus faecalis

*Virucidal

SANICARE QUAT-128 acts as a virucidal against:

- HIV-1 (AIDS virus)
- Hepatitis B Virus (HBV)
- Hepatitis C Virus (HCV)
- Herpes Simplex Type 1
- Herpes Simplex Type 2
- Human Coronavirus
- Influenza Type A/Hong Kong
- Adenovirus Type 4
- Respiratory Syncytial Virus (RSV)
- Rubella (German Measles)
- Vaccinia
- SARS Associated Coronavirus
- [SARS] [cause of Severe Acute Respiratory Syndrome]
- Transmissible Gastroenteritis Virus (TGE)

according to the *Virucidal Qualification Test*, modified in the presence of 5% organic serum and 400 ppm water hardness (calculated as CaCO₃). Dilution 1:128

Note: + = Virus present; 0 = No Virus present; T = Toxic

Herpes Simplex Type 2

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	T000	++++	T000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	++++	0000
10 ⁻⁷	0000	++++	0000
10 ⁻⁸	0000	++++	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Herpes Simplex, Type 2.

*Virucidal

Herpes Simplex Virus; HSV-I, VR-3, Hominus

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	0000	++++	T000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	++++	0000
10 ⁻⁷	0000	++++	0000
10 ⁻⁸	0000	+000	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Herpes Simplex, Type 1.

Influenza Virus, Type A; A/Hong Kong/68-H3N2

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	0000	++++	0000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	++++	0000
10 ⁻⁷	0000	++++	0000
10 ⁻⁸	0000	++++	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Influenza Virus, Type A.

Adenovirus, Type 4

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	0000	++++	T000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	0000	0000
10 ⁻⁷	0000	0000	0000
10 ⁻⁸	0000	0000	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Adenovirus, Type 4.

Vaccinia Virus, IHD Strain

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	0000	++++	0000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	++++	0000
10 ⁻⁷	0000	++++	0000
10 ⁻⁸	0000	0000	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Vaccinia.

Rubella (German Measles) Virus, Strain M-33

Serial Dilutions (Test Virus in 5% V/V Organic Biostress Load)	Treated Diluted with 400 PPM Hard Water	Untreated Test Virus Untreated Control	Cytotoxicity Control
10 ⁻¹	0000	++++	T000
10 ⁻²	0000	++++	0000
10 ⁻³	0000	++++	0000
10 ⁻⁴	0000	++++	0000
10 ⁻⁵	0000	++++	0000
10 ⁻⁶	0000	0000	0000
10 ⁻⁷	0000	0000	0000
10 ⁻⁸	0000	0000	0000

Conclusion: **SANICARE QUAT-128** effectively inactivated the test virus Rubella.

Note: + = Virus present; 0 = No Virus present; T = Toxic

Fungicidal

Fungicidal against **Trichophyton mentagrophytes** (Athlete's Foot Fungus), **Candida albicans** (Yeast), and **Aspergillus niger** (aspergillosis, pneumonia, skin infections, ear infections) according to the *AOAC Fungicidal Test* (current edition), modified in the presence of 5% organic serum and 400 ppm water hardness (calculated as CaCO₃). Dilution 1:128.

Organism	Carriers	# of Positives	# of Control
Trichophyton mentagrophytes	20	0	+
Candida albicans	20	0	+
Aspergillus niger	20	0	+

ONE-STEP DISINFECTANT, GERMICIDAL DETERGENT AND DEODORANT

SANICARE QUAT-128 is designed for use in:

- Hospitals
- Health care facilities / Nursing homes
- Commercial & Industrial Institutions
- Medical clinics
- Physicians' offices
- Day care centers
- Schools / Colleges / Universities
- Federally inspected meat and poultry plants (non-food contact surfaces)
- Community centers / Churches
- Hotels / Motels
- Office buildings
- Public rest areas
- Airport terminals

E.P.A. / Health Canada

EPA REG. NO.	47371-130-559
EPA EST. NO.	559-MO-1
DIN	01962086

SANICARE QUAT-128 is packaged in:

- 5 gallon **Action Pacs**[®]
- 4 x 1 gallon cases
- 55-gallon drums

Authorized Buckeye Distributor

Directions for use:

Disinfects, cleans, and deodorizes the following hard, nonporous, inanimate surfaces: floors, walls, (non-medical) metal surfaces, (non-medical) stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, etc.). Remove heavy soil deposits from surface. Then thoroughly wet surface with a use-solution of 1 ounce of the concentrate per gallon of water. The use-solution can be applied with a cloth, mop, sponge or coarse spray, or by soaking. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface, rub with a brush, cloth or sponge. Do not breathe spray. Let solution remain on surface for a minimum of 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished. Food contact surfaces must be thoroughly rinsed with potable water. This product must not be used to clean the following food contact surfaces: utensils, glassware and dishes. Prepare a fresh solution daily or more often if the solution becomes visibly dirty or diluted.

Technical Specifications

SANICARE QUAT-128

pH in concentrate	7.6 ± 0.2
pH 1 oz./gal.	7.0 ± 0.2
Weight/gallon	8.34 lb/gal.
Specific Gravity	1.00
Biodegradable	Yes
Dilution	1:128
Concentration of Quat @ 1 oz./gal.	660 ppm
Active Ingredients:	
Didecyl dimethyl ammonium chloride.....	5.07%
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%)	
dimethyl benzyl ammonium chloride.....	3.38%
Inert Ingredients	91.55%

SANICARE QUAT-128 is available through your local source for Buckeye products.



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