



One-Step Disinfectant-Deodorizer-Cleaner

Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner is a heavy-duty quaternary-based disinfectant, cleaner, and deodorizer.

Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner may be used as a disinfectant at two dilution ratios:

½ oz. per gallon for general cleaning

2 oz. per gallon for heavy-duty applications

Use **Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner** on most hard, nonporous surfaces in:

Nursing Homes

Hospitals

Healthcare Facilities

Schools and Colleges

Office Buildings

Public Facilities

Hotels

Exercise Facilities

FEATURES

- Disinfectant
- Bactericidal
- Virucidal*
- Fungicidal
- Mildewstatic
- EPA Registered
- Disinfects, cleans, and deodorizes in one labor-saving step
- Hospital use disinfectant. Bactericidal according to the current AOAC Use-Dilution Test Method and Virucidal* according to the virucidal qualification modified in the presence of 200 ppm hard water plus 5% organic serum
- Use on all hard, nonporous surfaces

Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner has a broad spectrum of kill claims including:

Staphylococcus aureus, Methicillin Resistant (MRSA) and Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA), Pseudomonas, Salmonella, Streptococcus, Adenovirus 5&7 [at 2 oz. per gallon], HIV-1 (associated with the AIDS Virus), HBV (Hepatitis B Virus), HCV (Hepatitis C Virus), Influenza Virus Type A/Brazil, Norwalk Virus, Rotavirus, SARS Associated Coronavirus (cause of Severe Acute Respiratory Syndrome), and Vaccinia Virus.

Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).

1.25 L Bag Yield Rate

½ oz./gal. (1:256) makes 84 end-use gallons, which is equivalent to:



42

2-gallon
mop buckets

Each 4x1 case makes 338 end-use gallons

2 oz./gal. (1:64) makes 21 end-use gallons, which is equivalent to:



84

quarts

Each 4x1 case makes 338 end-use quarts

RESEARCH FACTS

Virucidal* Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Virucidal	Varies	5%	400 ppm as CaCO ₃
Test Method:	EPA Guidelines		

Organism	Source of Virus or ATCC#	Contact Time	Results Log 10 Reduction
Adenovirus Type 5 (2 oz/gal)*	ATCC VR-5	10 Min.	>4.0
Adenovirus Type 7 (2 oz/gal)*	ATCC VR-7	10 Min.	>4.0
Hepatitis B (HBV)	Hepadnavirus Testing	10 Min	>4.2, >4.2
Hepatitis C (HCV)	Bovine Viral Diarrhea Virus	10 Min	>5.0
Herpes Simplex Type 1	HSV-1 Sabin	10 Min.	>4.0
Herpes Simplex Type 2	HSV-II Sabin (CL-5)	10 Min.	>3.5
HIV-1 (AIDS Virus)	HTLV-III _B ; Electronucleonics Inc.	1 Min.	>4.5
Human Coronavirus	ATCC VR-740	10 Min.	>3
Influenza A/Brazil	A/Brazil 11/78 (H1N1) E-7 ; CDC	10 Min.	>5.5
Norwalk (Feline Caliciviruses the surrogate for Norwalk virus)	Feline Calicivirus (FSV) University of Ottawa	10 Min.	>6.59, >6.58
SARS associated Coronavirus	SARS associated coronavirus strain 200300592	10 Min.	>3.67
Respiratory Syncytial Virus	VR-26	10 Min.	>4.75
Rotavirus	Strain WA	10 Min.	>5.5
Vaccinia	Wyeth strain	10 Min.	>5.0
Avian Influenza (H3N2)	Avian Influenza (H3N2) Virus ATCC VR 2072 Strain A/Washington/897/8 0X A/Mallard/New York/6750/78	10 Min.	>4.3
Avian Influenza (H5N1)	Strain H5N1-PR8/CDC-RG CDC#2006719965	10 Min.	>4.0
Canine Distemper Virus	Canine Distemper Strain Onderstepoort	10 Min.	>4.0
Feline Calicivirus	Feline Calicivirus (FSV) Univ of Ottawa	10 Min	>6.59, >6.58
Newcastle Disease Virus	NDV Atcc VR-108 Strain B-1 Hitchner and Blacksburg	10 Min.	>4.0
Pseudorabies Virus	PRV Strain Aujeszkies PT-1 Origin	10 Min.	>4.0

*Note, the higher dilution is required for efficacy

Antimicrobial Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Disinfectant	10 minutes	5%	400 ppm as CaCO ₃
Test Method:	Official Method of the AOAC, 14 th Edition Use-Dilution Method		

Organism	ATCC#	Results
Acinetobacter baumannii	19606	0/10, 0/10
Brevibacterium ammoniagenes	6871	0/10, 0/10, 0/10
Campylobacter jejuni	29428	0/10, 0/10
Citrus Canker	USDA 46190	0/10, 0/10
Enterobacter aerogenes	13408	0/10, 0/10, 0/10
Enterococcus faecalis	11700	0/10, 0/10, 0/10
Enterococcus faecalis - Vancomycin res.	51299	0/10, 0/10
Escherichia coli	11229	0/10, 0/10, 0/10
Escherichia coli ESB ⁴	CU-209	0/10, 0/10
Klebsiella pneumoniae	4352	0/10, 0/10, 0/10
Legionella pneumophila	33153	0/10, 0/10
Pseudomonas aeruginosa	15442	0/60, 0/60, 0/60, 0/40
Pseudomonas cepacia	17765	0/60, 0/60, 0/60, 0/40
Pseudomonas cepacia	25416	0/10, 0/10
Pseudomonas cepacia	25608	0/10, 0/10
Salmonella (choleraesuis) enterica	10708	0/60, 0/60, 0/60, 0/40
Salmonella schottmuelleri	10719	0/10, 0/10, 0/10
Salmonella typhi	6539	0/10, 0/10, 0/10
Serratia marcescens	274	0/10, 0/10, 0/10
Shigella dysenteriae	9380	0/10, 0/10, 0/10
Staphylococcus aureus	6538	0/60, 0/60, 0/60, 0/40
Staphylococcus aureus ¹	33592	0/10, 0/10
Staphylococcus aureus ²	14154	0/10, 0/10
Staphylococcus aureus ³ (VISA)	CDC HIP-5836	0/10, 0/10
Staphylococcus aureus (MRSA) Community Associated	NRS 384 USA 300	0/10, 0/10
Staphylococcus aureus (MRSA) Community Associated	NRS 123 USA 400	0/10, 0/10
Streptococcus pyogenes	12344	0/10, 0/10, 0/10
Vibrio cholerae	14035	0/10, 0/10

² Methicillin Resistant strain - (MRSA)

³ Multidrug Resistant: Tetracycline, penicillin, streptomycin, erythromycin; susceptible to chloramphenicol

⁴ Reduced Susceptibility to Vancomycin

⁴ Enzyme producing, antibiotic resistant

***KILLS HIV-1 (AIDS VIRUS) AND HBV (HEPATITIS B VIRUS) AND HCV (HEPATITIS C VIRUS) ON PRECLEANED, ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care 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).

Sanitizer Non-Food Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Sanitizer Non-food	60 seconds	5%	500 ppm as CaCO ₃
Test Method:	Sanitizer Non-Food Contact Surfaces – EPA; For Inanimate, Non-Food Contact Surfaces		

Organism	ATCC#	Dilution	Replicates	Results, % Reduction
Klebsiella pneumoniae	4352	200ppm (0.50 oz/4 gal)	6	>99.999
Staphylococcus aureus	6538	200ppm	6	>99.999

Fungicidal Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Fungicide	10 minutes	Pre-clean	400 ppm as CaCO ₃
Test Method:	Official Method of Analysis of the AOAC, Fungicidal Test		

Organism	ATCC#	Dilution	Replicates	Results		
				5 Min.	10 Min.	15 Min
Trichophyton mentagrophytes	9533	848 ppm (0.50 oz/gal)	4	0/4	+	0

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Fungicide	10 minutes	5%	250 ppm as CaCO ₃
Test Method:	Official Method of Analysis of the AOAC, Fungicidal Test – Use-dilution		

Organism	ATCC#	Dilution	Replicates	Results
Trichophyton mentagrophytes	9533	1696 ppm (1oz/gal)	10, 10	0/10, 0/10

Mildewstat Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Mildewstat	10 minutes	5%	400 ppm as CaCO ₃
Test Method:	Mildewstat (Mold and Mildew Control) – EPA – TSD 6-201 Mildewstat on Hard Surfaces		

Organism	ATCC#	Dilution	Replicates	Results
Aspergillus niger	6275	848 ppm (0.50 oz/gal)	10, 10, 10	0/10, 0/10, 0/10

Directions for Use

Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner can be used in a variety of application methods including spray & wipe, mop & bucket, and as a deodorizer.

To clean and deodorize hard, nonporous surfaces:

Mix ½ oz. of **Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner** per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

Preparation of Use-solution:

Mix ½ oz. per gallon of water (1:256). For heavy-duty use, mix 2 oz. per gallon of water (1:64).

Disinfection/Virucidal*/Fungicidal Directions:

Apply use solution to hard, nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. **For Influenza Virus Type A and Human Coronavirus, treated surfaces must remain wet for 1 minute.** Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. Rinse all surfaces that come in contact with food such as countertops, exteriors of appliances, tables, and stovetops with potable water before reuse. Do not use on utensils, glassware, dishes.



One-Step Disinfectant-Deodorizer-Cleaner



Connecting 1.25 L Bags to Eco Unit

1. Remove 1.25 L bag from carton.
2. Unlock Eco unit product compartment by turning key to the right.
3. Align Eco unit connector cap lugs with 1.25 L bag metering plug channels. Rotate clockwise to lock in place.
4. Fit 1.25 L bag neatly into product compartment with hose barb pointed downward.
**Ensure chemical line is not pinched.*
5. Close and lock Eco unit product compartment.

Available in:



1.25 L
bags

Dispensing Diluted Product into 32 oz. Trigger Spray Bottle

1. Use appropriate 32 oz. trigger spray bottle, and slide up over 5-inch discharge hose.
2. Push back lever to dispense diluted product.
3. Once trigger spray bottle is filled (approximately 2 inches from top), release lever to avoid overfilling.

Dispensing Diluted Product into Mop and Bucket/Other Equipment

1. Position Eco unit discharge hose into mop bucket or other equipment.
2. Press green button below appropriate product to dispense diluted product.
3. For hands-free operation, lift up red locking tab to dispense diluted product. Once filled, press down to release red locking tab and stop product flow.

Eco One-Step Disinfectant Technical Specifications	
pH (conc.)	12.7 ± 0.7
pH 2 oz./gal. (1:64)	10.7 ± 0.2
pH ½ oz./gal. (1:256)	10.2 ± 0.2
Specific Gravity	1.006 ± 0.10 gr/ml
Weight/Gallon	8.38 lbs
Color	Dark Orange
Fragrance	Peppermint



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