



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 is a broad-spectrum disinfectant that 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. makes 84 end-use gallons, which is equivalent to:



Each 4x1 case makes 338 end-use gallons

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



Each 4x1 case makes 338 end-use quarts

0.95 L Squeeze & Pour Yield Rate

½ oz./gal. makes 64 end-use gallons, which is equivalent to:



Each 6x1 case makes 384 end-use gallons

2 oz./gal. makes 16 end-use gallons, which is equivalent to:



Each 6x1 case makes 384 end-use quarts

US EPA REG. NO. 6836-78-559

RESEARCH FACTS

Virucidal* Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Virucidal	Varies	5%	200 ppm as CaCO ₃
Test Method:	EPA Guidelines		

Organism	Source of Virus or ATCC#	Contact Time	Dilution
Adenovirus Type 5	ATCC VR-5	10 Min.	3391 ppm (2 oz/gal)*
Adenovirus Type 7	ATCC VR-7	10 Min.	3391 ppm (2 oz/gal)*
Hepatitis B (HBV)	Hepadnavirus Testing	10 Min.	848 ppm (½ oz/gal)*
Hepatitis C (HCV)	Bovine Viral Diarrhea Virus	10 Min.	848 ppm
Herpes Simplex Type 1	HSV-1 Sabin	10 Min.	848 ppm
Herpes Simplex Type 2	HSV-II Sabin (CL-5)	10 Min.	848 ppm
HIV-1 (AIDS Virus)	HTLV-III _B ; Electronucleonics Inc.	1 Min.	848 ppm
Human Coronavirus	ATCC VR-740	10 Min.	848 ppm
Influenza A/Brazil	A/Brazil 11/78 (H1N1) E-7 ; CDC	10 Min.	848 ppm
Influenza Virus Type A/ Hong Kong	ATCC VR-544	10 Min.	848 ppm
Norwalk (Feline Caliciviruses the surrogate for Norwalk virus)	Feline Calicivirus (FSV) University of Ottawa	10 Min.	848 ppm
SARS associated Coronavirus	SARS associated coronavirus strain 200300592	10 Min.	848 ppm
Respiratory Syncytial Virus	VR-26	10 Min.	848 ppm
Rotavirus	Strain WA	10 Min.	848 ppm
Vaccinia	Wyeth strain	10 Min.	848 ppm
Avian Influenza (H3N2)	Avian Influenza (H3N2) Virus ATCC VR 2072 Strain A/Washington/897/80X A/Mallard/New York/6750/78	10 Min.	848 ppm
Avian Influenza (H5N1)	Strain H5N1-PR8/CDC-RG CDC#2006719965	10 Min.	848 ppm
Avian Infectious Bronchitis	ATCC-VR22	10 Min.	848 ppm
Canine Distemper Virus	Canine Distemper Strain Ondestepoort	10 Min.	848 ppm
Feline Calicivirus	Feline Calicivirus (FSV) Univ of Ottawa	10 Min.	848 ppm
Newcastle Disease Virus	NDV Atcc VR-108 Strain B-1 Hitchner and Blacksburg	10 Min.	848 ppm
Pseudorabies Virus	PRV Strain Aujeszkies PT-1 Origin	10 Min.	848 ppm

*Note, the higher dilution is required for efficacy

***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).

Antimicrobial Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Disinfectant	10 minutes	5%	200 ppm as CaCO ₃
Test Method:	Official Method of the AOAC, 14 th Edition Use-Dilution Method		

Organism	ATCC#	Dilution
Acinetobacter baumannii	19606	848 ppm (½ oz/gal)
Brevibacterium ammoniagenes	6871	848 ppm
Campylobacter jejuni	29428	848 ppm
Citrus Canker	USDA 46190	2000 ppm
Enterobacter aerogenes	13408	848 ppm
Enterococcus faecalis	11700	848 ppm
Enterococcus faecalis - Vancomycin res.	51299	848 ppm
Escherichia coli	11229	848 ppm
Escherichia coli ESBL ³	CU-209	848 ppm
Klebsiella pneumoniae	4352	848 ppm
Legionella pneumophila	33153	848 ppm
Listeria monocytogenes	19117	848 ppm
Pseudomonas aeruginosa	15442	848 ppm
Pseudomonas cepacia	17765	848 ppm
Pseudomonas cepacia	25416	848 ppm
Pseudomonas cepacia	25608	848 ppm
Salmonella (choleraesuis) enterica	10708	848 ppm
Salmonella schottmuelleri	10719	848 ppm
Salmonella typhi	6539	848 ppm
Serratia marcescens	274	848 ppm
Shigella dysenteriae	9380	848 ppm
Staphylococcus aureus	6538	848 ppm
Staphylococcus aureus ⁴	33592	848 ppm
Staphylococcus aureus ⁵	14154	848 ppm
Staphylococcus aureus ⁶ (VISA)	CDC HIP-5836	848 ppm
Staphylococcus aureus (MRSA) Community Associated	NRS 384 USA 300	848 ppm
Staphylococcus aureus (MRSA) Community Associated	NRS 123 USA 400	848 ppm
Streptococcus pyogenes	12344	848 ppm
Vibrio cholerae	14035	848 ppm

³ Enzyme producing, antibiotic resistant

⁴ Methicillin Resistant strain - (MRSA)

⁵ Multidrug Resistant: Tetracycline, penicillin, streptomycin, erythromycin; susceptible to chloramphenicol

⁶ Reduced Susceptibility to Vancomycin

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
Klebsiella pneumoniae	4352	200ppm (0.50 oz/4 gal)
Staphylococcus aureus	6538	200ppm

Fungicidal Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Fungicide	10 minutes	5%	200 ppm as CaCO ₃
Test Method:	EPA Guidelines		

Organism	ATCC#	Dilution
Trichophyton mentagrophytes	9533	848 ppm (0.50 oz/gal)

Mildewstat Test Results

Claim:	Contact Time:	Organic Soil:	Water Conditions:
Mildewstat	10 minutes	5%	200 ppm as CaCO ₃
Test Method:	EPA Guidelines		

Organism	ATCC#	Dilution
Aspergillus niger	6275	848 ppm (0.50 oz/gal)

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. For heavy-duty use, mix 2 oz. per gallon of water.

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.



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Directions for Use (continued)

Connecting 1.25 L Bags to Eco Unit

1. Remove 1.25 L bag from carton.
2. To open the Eco unit product compartment, depress the top of the unit with your fingers and pull the compartment down towards you with your other hand.
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 Eco unit product compartment.

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 cold water 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 cold water diluted product.
3. For hands-free operation, push the appropriate green button once to dispense cold water diluted product. Once filled, push the button again to stop product flow.

Available in:

1.25 L
bags0.95 L
squeeze
& pour
bottles

Eco One-Step Disinfectant Technical Specifications

pH (conc.)	12.7 ± 0.7
pH 2 oz./gal.	10.7 ± 0.2
pH ½ oz./gal.	10.2 ± 0.2
Specific Gravity	1.006 ± 0.10 gr/ml
Weight/Gallon	8.38 lbs
Color	Dark Orange
Fragrance	Peppermint



For more information
about E22, scan this code.

0.95 L Squeeze & Pour Bottles (S22)—User Instructions:

For mop and bucket applications:

Add ½ oz. per each prefilled 1 gallon cold water

For Eco 32 oz. trigger spray bottle:

Add ½ oz. per prefilled Eco trigger spray bottle (cold water)



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