

INTERvention[®]

Farm Animal Care
Disinfectant Cleaner & Deodorizer

Concentrate

FOR BARN
& FARM USE

Reference Sheet

Manufactured by:

Virox Technologies Inc.
2770 Coventry Road
Oakville, ON Canada L6H 6R1
1-800-387-7578
virox.com | viroxanimalhealth.com



This product is designed for use as a cleaner, disinfectant, sanitizer on hard non-porous surfaces of vehicles, trucks, trailers, carts, animal crates, grooming equipment, handling equipment, buckets, brushes, tables, transportation crates, foot baths, automatic feeders, troughs, feed racks, wash stalls, non porous fencing, gates, gathering guiding / controlling equipment, and non porous harnesses & leashes; commonly found in animal housing facilities, poultry, stall, barn, pen, agricultural & livestock buildings, and breeding facilities.

To Prepare Use Solution

Ratio	Per Gallon of Water	Per Liter of Water
1:16	8 oz.	64 mL
1:32	4 oz.	32 mL
1:64	2 oz.	16 mL
1:128	1 oz.	8 mL
1:256	0.5 oz.	4 mL

Claims

When used as directed, this product is highly effective against a broad-spectrum of pathogenic microorganisms including bacteria, antibiotic-resistant bacteria, viruses, fungi, mold and mildew. At a 1:16 dilution (8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load and 5 minute contact time, unless otherwise noted, this product kills the following on hard, non-porous inanimate surfaces:

BACTERIA

Acinetobacter baumannii (ATCC 19606)
Escherichia coli O157:H7 (ATCC 35150)
Klebsiella pneumoniae (ATCC 4352)
Listeria monocytogenes (ATCC 19111)
Pseudomonas aeruginosa (ATCC 15442)
Salmonella enterica (ATCC 10708)
(formerly known as *Salmonella choleraesuis*)
Shigella dysenteriae (ATCC 13313)
Staphylococcus aureus (ATCC 6538)
Streptococcus pyogenes (ATCC 12204)

ANTIBIOTIC-RESISTANT BACTERIA

Enterococcus faecium, Resistant to Vancomycin (VRE) (ATCC 51559)
Escherichia coli, Extended Spectrum Beta-lactamase resistance (ESBL) (ATCC BAA-196)
Klebsiella pneumoniae, Carbapenem-resistant (KPC) (ATCC BAA-1705)
Staphylococcus aureus (CA-MRSA) (clinical Isolate 08001) (Genotype USA300)
Staphylococcus aureus (CA-MRSA) (clinical Isolate 08005) (Genotype USA400)
Staphylococcus aureus (MRSA) (ATCC 33591)
Staphylococcus epidermidis (MRSE) (ATCC 51625)
Streptococcus pneumoniae, Penicillin Resistant (PRSP) (ATCC 700671)

FUNGI

This product is fungicidal when used as directed on hard, non-porous inanimate surfaces at a 1:16 dilution (8 oz. per gallon of water), and in the presence of a 5% serum load and 5 minute contact time at 20°C (68°F).

Trichophyton mentagrophytes (ATCC 9533)

Microsporum canis (ATCC 10214)

*VIRUSES

At 1:16 - 1:64 dilution (2 - 8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load and 5 minute contact time, unless otherwise noted, this product kills the following on hard, non-porous inanimate surfaces:

- *Adenovirus type 8 (ATCC VR-1368, Strain Trim)
- *Herpes simplex Type 2 (VR-734)
- *Human Coronavirus (VR-740)
- *Influenza Type A2 (Hong Kong) (VR-544)
- *Norovirus (Feline Calicivirus as the surrogate) (VR-782)
- *Parainfluenza Type 3 (VR-93)
- *Poliovirus Type 1 (ATCC VR-1000)
- *Respiratory Syncytial Virus (VR-26)
- *Rhinovirus Type 37, Strain 151-1 (ATCC VR-1147)
- *Rotavirus (Strain WA)
- *Vaccinia Virus (smallpox vaccine virus) (ATCC VR-119)

Kills *Hepatitis B Virus (HBV) & *Hepatitis C Virus (HCV) when used as directed on hard, non-porous inanimate surfaces with a 5 minute contact time.

Kills *Influenza A Virus (H1N1) (ATCC VR-1469, Strain A/PR/8/34) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.

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

VETERINARY *VIRUSES

- *Feline Calicivirus (ATCC VR-782)
- *Duck Hepatitis B Virus (DHBV)
- *Bovine Viral Diarrhea Virus (BVDV) (ATCC VR-1422)
- *Avian Influenza A (H3N2) (ATCC VR-2072)
- *Equine Influenza A (H3N8) virus, (strain Alaska/A/EQ/AK/29759/91)
- *Canine Distemper virus (ATCC VR-128), (Strain Lederle)
- *Porcine Respiratory & Reproductive Syndrome (PRRS) virus, (Strain NVSL)
- *Equine Herpes virus type 1 (strain EHV1)
- *Porcine Epidemic Diarrhea virus (Strain Colorado 2013 Isolate)

***Canine Parvovirus:** Kills *Canine Parvovirus (ATCC VR-2017) when used as directed on hard, non-porous inanimate surfaces at a 1:16 dilution (8 oz. per gallon of water), and in the presence of a 5% serum load and 5 minute contact time.

***Canine Parvovirus:** Kills *Canine Parvovirus (ATCC VR-2017, Strain cornell) when used as directed on hard, non-porous inanimate surfaces at a 1:32 dilution (4 oz. per gallon of water), and in the presence of a 5% serum load and 10 minute contact time.

***Minute Virus of Mice:** Kills *Minute Virus of Mice (ATCC VR-1346, Strain Prototype (p)) when used as directed on hard, non-porous inanimate surfaces at a 1:16 dilution (8 oz. per gallon of water), and in the presence of a 5% serum load and 5 minute contact time.

Mildewcidal Activity – kills the growth of mold and mildew: when diluted at 1:16 in 200 ppm hard water at a 10 minute contact time: *Aspergillus niger* (ATCC 16404) and the odors caused by them when applied to hard, non-porous environmental surfaces.

Mildewstatic Activity – controls and prevents the growth of mold and mildew: when diluted at 1:16 in 200 ppm hard water at a 10 minute contact time: *Aspergillus niger* (ATCC 6275) and the odors caused by them when applied to hard, non-porous environmental surfaces.

Bactericidal Stability of Use-Solution – This product, when diluted at 1:16 dilution (8 oz. of product per gallon of water) in 200 ppm hard water, in the presence of 5% serum, remains effective against *Staphylococcus aureus*, *Salmonella enterica* (formerly known as *Salmonella choleraesuis*) and *Pseudomonas aeruginosa* for up to 90 days in storage as long as the bottle remains sealed. If the use-solution becomes visibly dirty or contaminated, it must be discarded and a fresh product prepared. Always use clean, dry containers when diluting this product. Treated surfaces must remain wet for 5 minutes.

Sanitizing: When used as a non-food contact sanitizer at a 1:16 dilution (8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load, this product reduces the following bacteria by 99.9% with a 30 second contact time on hard non-porous inanimate surfaces:

Enterobacter aerogenes (ATCC 13048)

Enterococcus faecalis, Vancomycin-Resistant (VRE) (ATCC 51575)

Escherichia coli, Extended Spectrum Beta-lactamase resistance (ESBL) (ATCC BAA-196)

Listeria monocytogenes (ATCC 19111)

Pseudomonas aeruginosa (ATCC 15442)

Salmonella enterica (ATCC 10708) (formerly known as *Salmonella choleraesuis*)

Staphylococcus aureus (ATCC 6538)

Sanitizing: When used as a non-food contact sanitizer at a 1:128 dilution (1 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load, this product reduces the following bacteria by 99.9% with a 3 minute contact time on hard non-porous inanimate surfaces:

Staphylococcus aureus (ATCC 6538)

Klebsiella pneumoniae (ATCC 4352)

Escherichia coli (ATCC 11229)

Enterococcus faecalis (ATCC 29212)

Listeria monocytogenes (ATCC 19111)

Pseudomonas aeruginosa (ATCC 15442)

Salmonella enterica (ATCC 10708) (formerly known as *Salmonella choleraesuis*)

Malodor Activity – eliminates odors and odor-causing bacteria on hard, nonporous surfaces in restroom areas, behind and under sinks and counters, and storage areas and other places where bacterial growth can cause malodors, when used as directed at a 1:16 dilution (8 oz. of product per gallon of water), in the presence of 200 ppm hard water in 30 seconds or when used as directed at a 1:128 dilution (1 oz. per gallon of water), in the presence of 200 ppm hard water in 3 minutes.

Directions For Use

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

***This product kills HBV, HCV and HIV-1 on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids** in health care settings and other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or 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 Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

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

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

Cleaning Procedures: Blood and body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

Contact Time: Allow surface to remain wet for 1 minute to kill HIV-1, and for 5 minutes to kill HBV, HCV.

Disposal of Infectious Material: Blood and other body fluids must be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

For use as a *Virucide: Dilute at 2 - 8 oz. of product per gallon of water (1:16 - 1:64). **1)** Pre-clean heavily soiled areas. **2)** Apply Use Solution until thoroughly wet. **3)** Let stand for 5 minutes. **4)** Wipe surfaces and let air dry.

To Kill *Canine Parvovirus: Dilute at 4.0 oz. of product per gallon of water (1:32). **1)** Pre-clean heavily soiled areas. **2)** Apply Use Solution until thoroughly wet. **3)** Let stand for 10 minutes. **4)** Wipe surfaces and let air dry.

To Kill *Minute Virus of Mice: Dilute at 8.0 oz. of product per gallon of water (1:16). **1)** Pre-clean heavily soiled areas. **2)** Apply Use Solution until thoroughly wet. **3)** Let stand for 5 minutes. **4)** Wipe surfaces and let air dry.

To Kill Mold and Mildew: Dilute at 8.0 oz. of product per gallon of water (1:16). Pre-clean surfaces. Apply Use Solution to hard, non-porous environmental surfaces. Allow surfaces to remain wet for 10 minutes. Wipe surfaces and let air dry.

To Control Mold and Mildew: Dilute at 8.0 oz. of product per gallon of water (1:16). Apply Use Solution to pre-cleaned hard, non-porous environmental surfaces. Wipe surfaces and let air dry. Repeat application weekly or when growth reappears.

To Sanitize Non-Food Contact Surfaces: Dilute at 8.0 oz. of product per gallon of water (1:16). **1)** Pre-clean heavily soiled hard non-porous surfaces. **2)** Apply Use Solution until thoroughly wet. **3)** Let stand for 30 seconds. **4)** Wipe surfaces and let air dry. **5)** Not for use on food contact surfaces or on food preparation areas.

To Sanitize Non-Food Contact Surfaces: Dilute at 1.0 oz. of product per gallon of water (1:128). **1)** Pre-clean heavily soiled hard non-porous surfaces. **2)** Apply Use Solution until thoroughly wet. **3)** Let stand for 3 minutes. **4)** Wipe surfaces and let air dry. **5)** Not for use on food contact surfaces or on food preparation areas.

For Use as a Deodorizer: Dilute at 1 oz. of product per gallon of water (1:128). Apply to hard, non-porous surfaces. Let stand for 3 minutes.

For Cleaning and Disinfection of Vehicles: Dilute at 8.0 oz. of product per gallon of water (1:16). To disinfect the non-porous, hard surfaces of vehicles: Remove all litter and manure for surfaces and thoroughly clean surfaces with this product and rinse with water. Apply use solution of this product using a high pressure or coarse spray system. Allow product to remain in contact with surfaces for 5 minutes and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent and then rinsed with potable water before reuse.

Si no puede leer en ingles, pregunte a su supervisor sobre las instrucciones de uso apropiadas antes de trabajar con este producto.