

Diversey 



Oxivir[®]

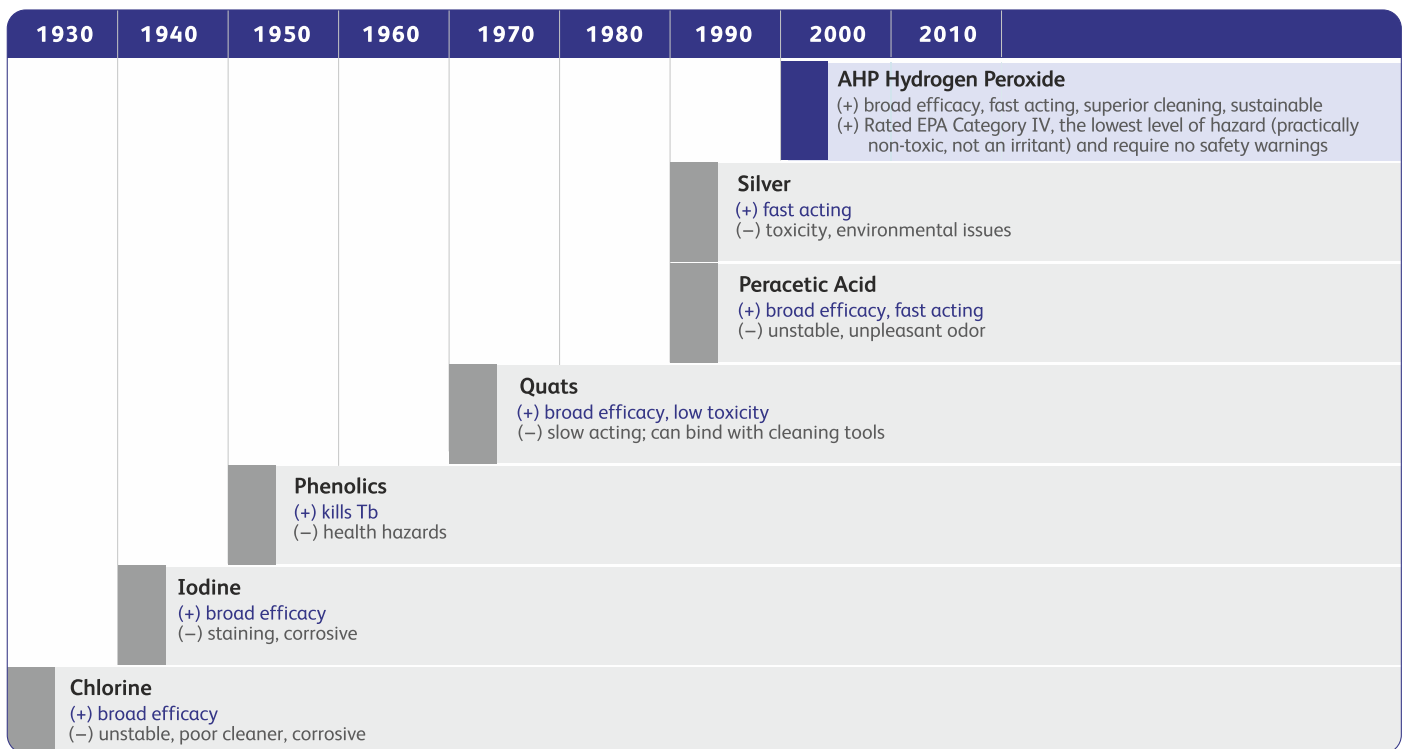
Tough on Pathogens, Not on People
Fast, Effective, Responsible



Creating a Safer Environment for Patients

- Healthcare-Associated Infections (HAIs) are a serious and growing problem across the globe. HAIs are the most common complication of hospital care and are one of the top 10 leading causes of death globally.
- Recent studies have shown that the environment can play a significant role in the transmission of pathogens, and that the cleaning and disinfection of surfaces plays a critical role in reducing the risk of HAIs and improving patient outcomes.
- The Centers for Disease Control and Prevention (CDC) Guidelines recommend surface disinfection and hand washing as two of the most important environmental controls to reduce HAIs.
- Today's healthcare professionals need disinfectants that are fast, effective and responsible.

Until now, traditional Disinfectant Technologies have not kept pace with customer needs for efficacy, cleaning, safety and sustainability



HOW DOES AHP STACK UP AGAINST COMPETITIVE TECHNOLOGIES ?

Germicide Type	AHP Technology	Alcohols	Quats	Quats + Alcohols	Phenolics	Chlorine
Broad-spectrum 30 sec. sanitizer (99.9 %)	YES	NO	NO	NO	NO	NO
Superior Cleaning Ability	YES	NO	NO	NO	NO	NO
Non-toxic, Non-irritant, No VOCs	YES	NO	NO	NO	NO	NO
Minimal Substrate Impact	YES	NO	NO	NO	NO	NO
Minimal Safety Warnings on Labels	YES	NO	NO	NO	NO	NO
Excellent Environmental Profile	YES	NO	NO	NO	NO	NO

Oxivir® – Powered by AHP Technology – Tough on Pathogens, Not on People

- AHP® is a patented, synergistic blend of commonly used, safe ingredients that when combined with low levels of hydrogen peroxide dramatically increase its germicidal potency and cleaning performance.
- Oxivir® Disinfectant Cleaners provide an alternative to traditional disinfectants by delivering fast acting, broad spectrum disinfection with enhanced cleaning power that is staff and patient friendly while being gentle on most surfaces. The active ingredient, hydrogen peroxide, breaks down into environment friendly water and oxygen just minutes after use.

Now there is an alternative with proven efficacy that is gentle to staff and surfaces

Comprehensive product line meeting all application needs:

- Pre-Moistened Wipes
- Concentrate



Efficacy

- Oxivir disinfectant cleaners are effective against a broad range of healthcare associated pathogens including enveloped and non-enveloped viruses, Gram negative and positive bacteria, tuberculosis, and fungi.
- Oxivir disinfectant cleaners meet US and Canadian Bloodborne Pathogen Standards for decontaminating blood and body fluid spills.

Fast Acting

- Oxivir Tb wipes disinfects against most common healthcare-associated pathogens, such as Hepatitis B, Hepatitis C, Norovirus, and multi-drug resistant organisms such as MRSA and VRE in just 60 seconds.
- Oxivir Five 16 Concentrate disinfects against most common healthcare associated pathogens in five minutes - half the contact time required of most dilutable disinfectants.

Efficacy of Oxivir Disinfectant Cleaners

Bactericidal activity of disinfectants (log10 reduction) with a contact time of 30 seconds or 1 minute at 20° C with and without Fetal Calf Serum (FCS).



powered by **AHP®**





Organism	Oxivir Tb (0.5% H ₂ O ₂)	0.5% H ₂ O ₂	1.4% H ₂ O ₂	3.0% H ₂ O ₂	(QUAT)
~10 ⁶ inoculum, contact time = 1 minute, no 5 % FCS					
MRSA	>6.62	≤4.04	≤4.04	≤4.04	5.55
VRE	>6.34	≤3.61	≤3.61	≤3.61	4.58
MDR A. baumannii	>6.76	≤4.28	≤4.28	≤4.28	>6.76
~10 ⁶ inoculum, contact time = 30 seconds, no 5 % FCS					
MRSA	>6.64	NT	NT	≤4.16	≤4.165
VRE	>6.28	NT	NT	≤3.80	≤3.80
MDR A. baumannii	>6.76	NT	NT	≤4.28	6.11
~10 ⁶ inoculum, contact time = 1 minute, no 5 % FCS					
MRSA	>3.71	≤1.23	≤1.23	≤1.23	>3.71
VRE	>3.26	1.45	NT	1.40	>3.26
MDR A. baumannii	>3.53	≤1.05	NT	>3.53	>3.53
~10 ⁶ inoculum, contact time = 1 minute, 5 % FCS present					
MRSA	>6.72	NT	NT	≤4.24	≤4.24
VRE	>6.26	NT	NT	≤3.78	≤3.78
MDR A. baumannii	>6.56	NT	NT	≤4.08	>6.56

Note: Individual mean values may have the same result because the same inoculums on the same day may have been run against multiple disinfectants. If complete killing occurred, the minimum inactivation would equal the initial inoculum. Some results reported as "greater than X" because complete killing of the inoculums occurred. A. baumannii, Acinetobacter baumannii; MDR, multidrug-resistant; MRSA, methicillin-resistant Staphylococcus aureus; NT, not tested; VRE, vancomycin-resistant Enterococcus.

TEST ORGANISM	TEST METHOD	CONTACT TIME
SANITIZER Klebsiella pneumoniae (ATCC 4352) Salmonella choleraesuis (ATCC 10708) Pseudomonas aeruginosa (ATCC 15442) Staphylococcus aureus (ATCC 6538) Staphylococcus aureus MRSA (ATCC 33592) Enterococcus faecalis VRE (ATCC 51575) Escherichia coli 0157:H7 (ATCC 35150)	ASTM E113 Standard test for Efficacy of Sanitizers Recommended for Inanimate non- Food Contact surfaces	30 seconds
VIRUCIDE Poliovirus Type 1, Strain Brunhilde (ATCC VR-1000) HIV-1 (AIDS Virus), Strain I ITLV-IIIB (I IIV-1) Feline Calcivirus, Strain F9 (ATCCVR-782) Human Coronovius (ATCC VR-740) Herpes Simplex Virus, Type 1 (HSV-1) (ATCCVR-733) Herpes Simplex Virus, Type 2 (HSV-1) (ATCCVR-734) Rhinovirus Type 37, Strain 151-1 (ATCC VR-1147) Rotavirus WA Hepatitis C Virus (HCV) Hepatitis B Virus (DHBV16 Strain)	ASTM 1053-97 Standard Test Method for Efficacy of Virucidal Agents intended for Inanimate Environmental Surfaces	1 minute
BACTERICIDE Pseudomonas aeruginosa (ATCC 15442) Staphylococcus aureus (ATCC 6538) Salmonella choleraesuis (ATCC 10708) Escherichia coli 0157:H7 (ATCC 35150) Staphylococcus aureus MRSA (ATCC 33592) Enterococcus faecalis VRE (ATCC 51575) Acinetobacter baumannii (ATCC 196060)	AOAC Use Dilution Test Method	1 minute
TUBERCULOCIDE Mycobacterium bovis (TB) (OT 451C150)	FPA Quantitative Tuberculocidal Activity Test Method	5 minutes
FUNGICIDE Trichophyton mentagrophytes (ATCC 9533)	AOAC Fungicidal Activity of Disinfectants Method	10minute

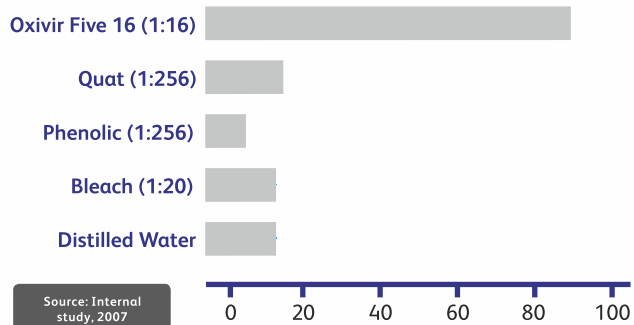
* All test conducted in the presence of 5 % serum load at 20°C on hard, non-porous environmental surfaces.

Superior Cleaning Ability

- The patented AHP technology contains a high-performance surfactant system that delivers superior cleaning results versus many other disinfectant technologies.
- Exceptional cleaning properties even in the presence of organic soils and hard water.
- Thorough soil removal enables effective one-step cleaning and disinfection, improving staff productivity.
- Oxivir Disinfectant Cleaners will not bind with cleaning tool fabrics such as cotton or microfiber, eliminating the risk of reduced efficacy due to quat binding.

AHP Technology Cleans Better than Traditional Disinfectants

% Soil Removal in a Standard Cleaning Test





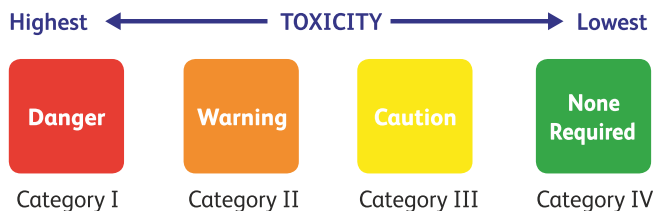
Safety

Although highly effective against key healthcare associated pathogens, Oxivir Disinfectant Cleaners were formulated with the comfort, safety and well-being of staff and patients in mind. Because of the low level of active ingredients in the AHP technology, Oxivir Disinfectant Cleaners are also compatible for use on most common surfaces in healthcare facilities.

Since Oxivir Disinfectant Cleaners are non-corrosive and nonirritating to skin and eyes at dilution, they can be safely used without personal protective equipment, enabling use by visitors or staff in public areas or patient settings. They are also pleasant to use, with no VOCs, added fragrances or strong chemical odors or fumes.

The EPA uses results from toxicity studies to determine safety ratings of cleaners and disinfectants in six areas: Acute Oral (ingestion), Acute Dermal (skin), Acute Inhalation, Primary Eye Irritation, Primary Skin Irritation, and Dermal Sensitization. Products are categorized into one of four levels of toxicity for each of these areas. Category IV is the safest level, requiring no hazard indicators.

In all six EPA toxicity categories, Oxivir Disinfectant Cleaners, at use dilutions, fall into Category IV, the lowest level of hazard (practically non-toxic, not an irritant) and require no safety warnings.



The Hazard Materials Identification System (HMIS) is a numerical rating that measures the health hazard, flammability and physical hazards of substances. Oxivir Disinfectant Cleaners, at use dilutions, are rated at the lowest possible toxicity levels 0 - 0 - 0.

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

- ▶ **Health** - No significant risk to health
- ▶ **Flammability** - Materials that will not burn
- ▶ **Physical Hazard** - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 29, 2015

Sara Seltzer
Registration Specialist
Diversity, Inc.
8310 16th Street, MS 707
Sturtevant, WI 53177

Subject: Label Amendment – Label Revisions per CDPR
Review Product Name: OXIVIR WIPES
EPA Registration Number: 70627-60
Application Date: May 13, 2015
Decision Number: 505104

Dear Sara Seltzer:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance





Gentle on Surfaces (Surface Compatibility)

Oxivir Disinfectant Cleaners can be safely used on most common healthcare surfaces.

They are compatible with stainless steel, chrome, vinyl, nylon fabrics, laminated surfaces, glass, rubber and hard and flexible plastics such as polypropylene, polyurethane, polyethylene, PVC acrylic, fiberglass and polycarbonate.

Oxivir Provides Fast, Effective & Responsible Disinfection

	Oxivir™ Tb Wipes	QUATs Wipes
HMIS Rating	0-0-0 (Safest)	3-2- 0
Broader EPA Safety Category	Category IV (Safest)	Category II (Warning)
Irritancy Profile	Non-irritating to eyes and skin	Moderately irritating to eyes





Sustainable

AHP® is a patented, synergistic blend of commonly used, safe ingredients that when combined with low levels of hydrogen peroxide dramatically increase its germicidal potency and cleaning performance.

Degradable

- The active ingredient, hydrogen peroxide, degrades into environmentally friendly water and oxygen just minutes after use.

Environmentally Responsible

- All Oxivir Disinfectant Cleaner ingredients appear on the EPA Inert or the FDA GRAS (Generally Regarded as Safe) listing.
- To improve the environmental and safety profile, no Alkylphenol Ethoxylates (APEs) or Nonylphenol Ethoxylates (NPEs) are used in Oxivir Disinfectant Cleaners; formulations include alternate raw materials that are more favorable for the environment.
- For improved indoor air quality, all Oxivir formulations are free of volatile organic compounds (VOCs).



Product Summaries

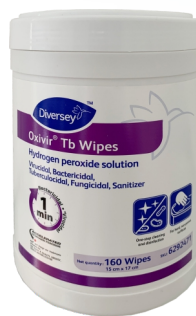
Oxivir® Tb Wipes

Oxivir® Tb Wipes are ready-to-use hospital disinfectant cleaners, powered by AHP technology, that disinfect hard non-porous surfaces in just 60 seconds.

These products are highly effective against a wide variety of pathogenic organisms. Formulations have an active ingredient of 0.5 % hydrogen peroxide.

Key Benefits

- Kills a wide variety of organisms associated with HAIs: Norovirus, Hepatitis B, Hepatitis C, MRSA, VRE, Acinetobacter and Klebsiella in 60 seconds
- Oxivir® Tb Wipes contact time against Norovirus (60 seconds) is 3x faster than some competitive wipes
- Meets bloodborne pathogen standards for decontaminating blood and body fluids
- Realistic 60 second contact time increases the likelihood of proper usage and compliance
- Regular use helps reduce costs associated with HAIs
- Non-irritating to eyes and skin — no gloves needed when used as directed
- Non-corrosive formula is compatible with most hard, non-porous surfaces
- Active ingredients break down to oxygen and water
- No rinsing required post application
- Wipe substrate delivers superior cleaning performance
- Wipes have a 3-year shelf life and do not deteriorate in the presence of hydrogen peroxide



SKU 6292471 12 N X 160 Count
Canister – 15 cm X 17 cm wipe





Product Summaries

Oxivir® Five 16 Concentrate

Oxivir® Five 16 Concentrate is a one-step disinfectant cleaner powered by proprietary AHP technology that disinfects hard non-porous surfaces in just five minutes. These products are effective against a broad spectrum of pathogenic organisms including bacteria, antibiotic-resistant bacteria, viruses and fungi. Concentrate formulation has 4.25% hydrogen peroxide.

Key Benefits

- Kills a variety of organisms associated with HAIs: Norovirus, Hepatitis B, Hepatitis C, multi-drug resistant organisms such as MRSA and VRE in 5 minutes
- At a 1:16 dilution, is a hospital disinfectant cleaner in 5 minutes
- At a 1:64 dilution, is virucidal in 5 minutes, meeting bloodborne pathogen standards
- At a 1:128 dilution, is a non-food contact sanitizer in 3 minutes
- At a 1:256 dilution, is a floor and general cleaner
- At normal disinfectant dilution (1:16) non-irritating to eyes and skin, no gloves needed when used as directed
- Non-corrosive formula is compatible with most hard, non-porous surfaces
- Active ingredients break down to oxygen and water
- No rinsing required at use dilution

SKU 5209583 5 LTR



Oxivir® disinfectant cleaners



Oxivir® Tb Wipes

Oxivir® Five 16

Key Features

Highly effective against broad spectrum of pathogenic organisms	↔	↔
Meets OSHA bloodborne pathogen standard	↔	↔
Non-irritating to eyes and skin – HMIS of 0-0-0 at use dilution	↔	↔
Active ingredients degrade to oxygen and water	↔	↔

	Oxivir® Tb Wipes	Oxivir® Five 16
Disinfectant Claims	Contact Times (Minutes)	
Bacteria		
Staphylococcus aureus	1	5
Salmonella enterica, (formerly known as Salmonella choleraesuis)	1	5
Pseudomonas aeruginosa	1	5
Acinetobacter baumannii	1	5
Escherichia coli O157:H7	1	5
Klebsiella pneumoniae		5
Listeria monocytogenes		5
Streptococcus pyogenes		5
Shigella dysenteriae		5
Viruses		
Hepatitis B Virus (HBV)	1	5
Hepatitis C Virus (HCV)	1	5
Herpes Simplex Virus (HSV-1)	1	
Herpes Simplex Virus (HSV-2)	1	5
Human Immunodeficiency Virus Type 1 – AIDS Virus (HIV-1)	1	1
Human Coronavirus	1	5
Influenza A Virus/Hong Kong	1	5
Avian Influenza A Virus	1	5
Influenza A Virus (H1N1)		1
Norovirus (Feline Calicivirus as surrogate)	1	5
Feline Calicivirus Strain F9	1	
Poliovirus Type 1	1	5
Rhinovirus		5
Rotavirus	1	5
Parainfluenza Virus Type 3		5
Respiratory Syncytial Virus		5
Vaccinia Virus (smallpox vaccine virus)		5
Canine Parovirus		5
Adenovirus Type 8		5

	Oxivir® Tb Wipes	Oxivir® Five 16
Disinfectant Claims	Contact Times (Minutes)	
Antibiotic-Resistant Bacteria		
Enterococcus faecalis, Vancomycin-resistant (VRE)	1	5
Staphylococcus aureus, Methicillin-resistant (MRSA)	1	5
Staphylococcus epidermidis, Methicillin-resistant (MRSE)		5
Staphylococcus aureus, Community Associated Methicillin-resistant (CA-MRSA)	1	5
Streptococcus pneumoniae, Penicillin-resistant (PRSP)		5
Enterococcus faecium, Vancomycin-resistant (VRE)		5
Escherichia coli Extended Spectrum Beta-lactamase resistance (ESBL)	1	5
Klebsiella pneumoniae, Carbapenem-resistant (KPC)		5
Mycobacteria (TB)		
Mycobacterium bovis (TB)	5	
Fungi/Mildew		
Trichophyton mentagrophytes (Athlete's Foot Fungus)	10	5
Aspergillus niger		10
Non-Food Contact Sanitizer Claims		
Contact Times		
Enterococcus faecalis, Vancomycin-resistant (VRE)	30 sec.	
Escherichia coli O157:H7	30 sec.	
Escherichia coli (ESBL)		30 sec.
Listeria monocytogenes		30 sec.
Klebsiella pneumoniae	30 sec.	30 sec.
Pseudomonas aeruginosa	30 sec.	30 sec.
Salmonella enterica (formerly known as Salmonella choleraesuis)	30 sec.	30 sec.
Staphylococcus aureus	30 sec.	30 sec.
Staphylococcus aureus, Methicillin-resistant (MRSA)	30 sec.	



Diversey has been, and always will be, pioneers and facilitators for life. We constantly deliver revolutionary cleaning and hygiene technologies that provide total confidence to our customers across all of our global sectors. Led by Dr. Ilham Kadri, President & CEO, and headquartered in Charlotte, North Carolina, USA, Diversey employs approximately 9,000 people globally, generating net sales of approximately \$2.6 billion in 2016.

For more information, visit www.diversey.com or follow us on social media.

Diversey

501, 5th Floor, Ackruti Centre Point, MIDC Central Road,
Andheri (East), Mumbai 400 093. INDIA
Tel.: +91 22 4881 4300, Fax: +91 22 4881 4331
Toll Free No.: 1800 209 2095
Website: www.diversey.com

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