DISINFEXIT 10

DISINFECTANT - NO RINSE SANITIZER † - DEODORIZER - MILDEWSTAT (HARD INANIMATE SURFACES)

DISINFEXIT 10 is a fragrance free, colorless, concentrate quaternary ammonium solution used as a DISINFECTANT - NO RINSE SANITIZER - DEODORIZER- MILDEWSTAT.
When used as directed, **DISINFEXIT 10** is a broad-spectrum virucidal hard surface disinfectant that is expected to inactivate the SARS-CoV-2 (the virus that causes COVID-19).

DISINFEXIT 10 is designed specifically for hospitals, public places / institutions, food processing plants, dairies, restaurants, bars, animal quarters, kennels where disinfection, sanitization and deodorisation is of prime importance. When used as directed, this product is formulated to disinfect precleaned inanimate, hard surfaces such as walls, floors, sink tops, tables, chairs, and bed frames. This product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, pet areas and any other areas which are prone to odours caused by microorganisms.
DISINFEXIT 10 is to be used with a mop and bucket, sponge, cloth, low pressure coarse sprayer, hand pump trigger sprayer or by soaking.

It is a violation of Federal Law to use DISINFEXIT 10 in a manner inconsistent with its labeling. DISINFEXIT 10 is not to be used as a terminal sterilant high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body.
DISINFEXIT 10 is not for use on critical and semi-critical medical device surfaces.

DIRECTIONS

DISINFECTION - Pre-clean inanimate, hard surfaces with a reliable detergent or a RM Chemical recommended product. Dilute **DISINFEXIT 10:**

5.50 mL /1 Litres of potable water (550ppm concentration).
11.0 mL /2 Litres of potable water (550ppm concentration).
16.5 mL / 3 Litres of potable water (550ppm concentration).
22.0 mL / 4 Litres of potable water (550ppm concentration).

Apply product with mop, cloth, sponge or coarse (trigger) spray so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Prepare a fresh solution for each use.

HOSPITAL / HEALTH CARE DISINFECTION - Add 22 mL of **DISINFEXIT 10** per 4 Litres of potable water (550 ppm concentration) for disinfection against Pseudomonas aeruginosa and Vancomycin intermediate resistant Staphylococcus aureus (VISA). **DISINFEXIT 10**, when used on pre-cleaned environmental inanimate hard surfaces at 550 ppm exhibits effective virucidal activity against Influenza A2/Japan, herpes Simplex Type 1, Adenovirus Type 5, Vaccinia virus, and Avian influenza A /Turkey / Wisconsin, Human Immunodeficiency Virus Type 1 (HIV-1), Newcastle disease virus, Laryngotracheitis Virus, Porcine Respiratory and Reproductive Syndrome virus. **DISINFEXIT 10** has demonstrated effectiveness against Vaccinia and Influenza A virus and is expected to inactivate all Influenza A viruses including 2009 (H1N1) pandemic Influenza A virus.

HOSPITAL / HEALTH CARE DISINFECTION – Continued

EFFICACY TESTS HAVE DEMONSTRATED THAT DISINFEXIT 10 IS AN EFFECTIVE BACTERICIDE AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM). KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS

In health care settings (Hospitals, Nursing Homes) or other settings which there is an expected likelihood of soiling in 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 Human Immunodeficiency Virus Type 1 (HIV-1).

Special instructions for cleaning and decontamination against HIV-1 on surfaces soiled with blood/body fluids.

Personal Protection: When handling items soiled with blood or body fluids use disposable latex gloves, gowns, masks, or eye coverings.
Cleaning Procedures: Target surfaces must be cleaned prior to disinfection, as the presence of heavy soil on a surface may reduce the intended disinfectant efficacy of the product.
Contact Time/Concentration: At a use dilution of 32.5 mL per 4 L of potable water (806 ppm) **DISINFEXIT 10** is effective against HIV-1 in the presence of 5% blood serum with a 10 minute contact time.
Infectious Materials Disposal: Any materials used in the cleaning process that may contain blood or body fluids are to be disposed of immediately in accordance with local regulations for infectious materials disposal.

SANITIZATION FOOD CONTACT SURFACES

For use in restaurants, dairies, food processing plants, and bars. When used as directed **DISINFEXIT 10** is an effective sanitizer against Escherichia coli, Yersinia enterocolitica, and Staphylococcus aureus and E. coli 0157:H7, Shigella sonnei (ATCC 11060), Vibrio cholera (ATCC 14035), Methicillin resistant Staphylococcus aureus (MRSA) (ATCC 33592), Vancomycin resistant Enterococcus faecalis (VRE) (ATCC 51299), Klebsiella pneumoniae (ATCC 4352), Listeria monocytogenes (ATCC 35152), Salmonella typhi (ATCC 6539), campylobacter jejuni (ATCC 29428).

SANITIZATION DIRECTIONS

Remove all gross food particles and soil from areas which are to be sanitized with good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with a potable water rinse.
To sanitize pre-cleaned and potable water-rinsed, non-porous, food contact surfaces, prepare a 200 ppm active quaternary solution by adding 8 mL **DISINFEXIT 10** to 4 Litres of potable water.

2.0 mL / 1 Litres of potable water (200 ppm concentration).
4.0 mL / 2 Litres of potable water (200 ppm concentration).
6.0 mL / 3 Litres of potable water (200 ppm concentration).
8.0 mL / 4 Litres of potable water (200 ppm concentration).

To sanitize immobile items such as tanks, chopping blocks and counter tops, flood the area with 200 ppm active **DISINFEXIT 10** solution for at least 60 seconds making sure to wet all surfaces completely. Remove, drain the use solution from the surface and air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

SANITIZATION DIRECTIONS - Continued

To sanitize mobile items such as drinking glasses and eating utensils, immerse in a 200 ppm active **DISINFEXIT 10** solution for at least 60 seconds making sure to immerse completely. Remove, drain the used solution from the surface and air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

When used for sanitization of previously cleaned food equipment or food contact items, limit **DISINFEXIT 10** to 200 ppm. NO POTABLE WATER RINSE IS REQUIRED. This product is an effective sanitizer when diluted in water up to 650 ppm hardness (CaCO3).

SANITIZATION NON-FOOD CONTACT SURFACE

SANITIZATION DIRECTIONS

DISINFEXIT 10 is an effective sanitizer for pre-cleaned, hard, inanimate, non-porous surfaces. Walls, floors, bathroom surfaces, shower stalls, shower doors, shower curtains, cabinets, toilets, chrome plated fixtures, urinals, doorknobs, garbage cans, exercise equipment, wrestling mats, glass surfaces, stainless steel surfaces, metal surfaces, glazed ceramic tile, glazed fiberglass, drains, telephones, telephone keypads, animal cages, cages, kennel runs, automotive garages, boats, ships, automobile interior surfaces: steering wheels, seat belt buckles and housings, non-porous surfaces of child restraint seats, door handles, non-porous surfaces of visors, mirrors, dashboards, gear shift levers, accessory control knobs, vinyl car seats and head restraints. **DISINFEXIT 10** (200 ppm active quaternary) will kill (99.9%) of Klebsiella pneumoniae (ATCC 4352), Staphylococcus aureus (ATCC 6538) and Listeria monocytogenes (ATCC35152). Sanitization will occur only on pre-cleaned surfaces. **DISINFEXIT 10** is to be used with a mop and bucket, sponge, cloth, low pressure coarse sprayer, hand pump trigger sprayer or by soaking.
For sprayer applications, use a coarse e (mist) pump or trigger sprayer. Spray 6-9 inches from the surface. Rub with brush, sponge or cloth. NOTE: With spray applications, cover or remove all food products. Treated surfaces must remain wet for 60 seconds (1minute) and (wiped with a sponge) (wiped with a mop) (wiped with a cloth) (and/or) (allowed to air dry).

DEODORIZATION

DEODORIZATION DIRECTIONS To deodorize, apply **DISINFEXIT 10** as indicated under the heading GENERAL DISINFECTION.

MILDEWSTAT

MILDEWSTAT DIRECTIONS

To control mould and mildew on pre-cleaned, hard, non-porous surfaces add **DISINFEXIT 10** at 22.0 mL / 4 Litres of potable water (550ppm concentration).
Apply solution with a cloth, mop, or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

DISINFEXIT 10

TECHNICAL DATA

ACTIVE INGREDIENTS

Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides..... 5.0%
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammoniumchlorides..... 5.0%
(INERT)(OTHER) INGREDIENTS..... 90.0%
TOTAL..... 100.0%

Market Application

Antimicrobials
Home Care
Institutional and Industrial Cleaning
Dairy Cleaners
Deodorizers
Disinfectants
Disinfectants and Sanitizers
Hospital Disinfectants
Sanitizers

Use Sites

Airplane
Animal Cage
Animal Life Science Lab
Athletic Facilities
Automotive Garage
Bar
Barber Tool
Bathroom
Bathtub
Bed Frame
Boat
Breeding Establishment
Bus
Cabinet
Cafeteria
Camper
Car
Carpet
Chair
Chrome
Classroom
College
Comb
Coop
Counter Top
Crate
Dairy Farm
Daycare Center
Dental Office
Desk
Door Knob
Drinking Glass
Drywall
Eating Utensil
Egg Processing Plant
Factory
Farm
Fast Food Operation
Floor
Flower Bucket
Food Contact Surface
Food Processing Plant
Food Service Establishment
Funeral Home
Garbage Can
Glazed Ceramic Tile
Glazed Porcelain
Granite
Grooming Establishment
Hog Farm
Hospital
Hotel
Household
Humidifier
Institutional Facilities
Institutional Kitchen
Kennel
Kitchen
Lab
Laundries
Lodging Establishment
Marble
Medical Facility
Metal Surface
Mirror
Mobile Home
Motel
Non-Wooden Picnic Table
Nursing Home
Operating Room
Outdoor Furniture
Paneling
Pet Animal Quarter
Pet Shop
Plastic Surface
Poultry Farm
Recreational Facility
Restaurant
Restroom
Retail Facility
School
Scissors
Sealed Granite
Sealed Marble
Ship
Shoe Bath
Shower Curtain
Shower Door
Shower Stall
Stainless Steel Surface
Stovetop
Supermarket
Table
Tanning Bed
Tanning Spa
Taxi
Telephone
Toilet
Toilet Bowl
Trailer
Train
Transportation Terminal
Truck
Turkey Farm
Ultrasonic Bath
Urinal
Veterinary Clinic
Vinyl
Wall
Whirlpool
Wrestling Mat
Zoo

EFFICACY DATA for **DISINFEXIT 10**
(DIN# 02498162)

DISINFECTION DATA:
Test Method: AOAC
Use Dilution Test Conditions: 5% organic soil load, 10-minute contact time, stainless steel carrier substrates 20 °C exposure temperature Results:

		No Of Carriers		
Test Organism	**Dilution**	**Sample**	**Exposed**	**Positive**
Staphylococcus aureus (ATCC 6538)	3 ounces/ 5 gallons	A B	60 60	0 0
Salmonella enterica (ATCC 10708)	3 ounces/ 5 gallons	A B	60 60	0 0
Listeria monocytogenes (ATCC 35152)	3 ounces/ 5 gallons	A B	10 10	0 0
Yersinia enterocolitica (ATCC 23715)	3 ounces/ 5 gallons	A B	10 10	0 0
Pseudomonas aeruginosa (ATCC 15442)	3.5 ounces/ 5 gallons	A B	60 60	0 0
Vancomycin intermediate resistant Staphylococcus aureus (VISA) (HIP-5836)	3.5 ounces/ 5 gallons	A B	10 10	0 0

Conclusion: Under the conditions of these investigations, **DISINFEXIT 10** demonstrated disinfectant activity against Staphylococcus aureus, Salmonella enterica, Listeria monocytogenes, Yersinia enterocolitica, Pseudomonas aeruginosa and Vancomycin intermediate resistant Staphylococcus aureus (VISA) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

VIRUCIDAL DATA:
Test Methods:
‡ Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.
* U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.
† Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836)
Test Conditions: 3.5 ounces/5 gallons dilution, 10-minute contact time, glass petri dish substrates, 18.5-25 °C exposure temperature, tested in the presence of serum.
Results:

Test Organism	**Sample**	**Titer Reduction**
†Adenovirus Type 5	A B	$\geq 3.0 \log_{10}$ $\geq 3.3 \log_{10}$
*Avian Influenza A/Turkey/Wisconsin (ATCC VR-798)	A B	$\geq 5.5 \log_{10}$ $\geq 5.5 \log_{10}$
†Herpes Simplex Type 1 (Sabin)	A B	$4.0 \log_{10}$ $4.0 \log_{10}$
*Human Immunodeficiency Virus, HIV-1, strain HTLV-III_B, (associated with AIDS)	A B	$\geq 3.5 \log_{10}$ $\geq 3.5 \log_{10}$
†Influenza A_2 (Japan 305/57)	A B	$7.5 \log_{10}$ $7.5 \log_{10}$

VIRUCIDAL DATA Continued:

*Laryngotracheitis (LT-IVAX)	A B	4.75 $\log_{10}$ $\geq$4.75 $\log_{10}$
*Newcastle Disease Virus (strain H.J. Roakin, 1946)	A B	$\geq$5.5 $\log_{10}$ $\geq$5.5 $\log_{10}$
*Pandemic 2009 H1N1 Influenza A Virus	(Refer to NOTE below)	
*Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) Strain NVSL)	A B	$\geq$5.75 $\log_{10}$ $\geq$5.75 $\log_{10}$
†Vaccinia (Wyeth)	A B	3.5 $\log_{10}$ 3.5 $\log_{10}$

Conclusion: Under the conditions of this investigation, **DISINFEXIT 10** demonstrated **virucidal** activity against Adenovirus Type 5, Avian Influenza A/Turkey/Wisconsin, Herpes Simplex Type 1 (Sabin), Human Immunodeficiency Virus (HIV-1), Influenza A_2 (Japan 305/57), Laryngotracheitis, Newcastle Disease Virus, Porcine Respiratory & Reproductive Syndrome Virus (PRRSV), and Vaccinia (Wyeth) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

SANITIZATION DATA (Food Contact Surfaces):

Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

Test Conditions: Synthetic hard water as **650 ppm** hardness (as $CaCO_3$)
200 ppm active quaternary (public eating establishments and dairies)
200-400 ppm active quaternary (food processing equipment/utensils)
1-2 ounces/4 gallon dilution

Results:		**TOTAL BACTERIAL COUNTS/ % KILL vs. EXPOSURE TIME**				
		30 seconds		**60 seconds**		**Initial Inoculum**
Organism	**Sample**	**TBC***	**% Kill†**	**TBC***	**% Kill†**	**Control Count**
Staphylococcus aureus (ATCC 6538)	A B C	970 1285 1145	99.999 99.999 99.999	105 205 130	99.999 99.999 99.999	7.8×10^7 9.2×10^7 9.3×10^7
Escherichia coli (ATCC 11229)	A B C	1125 1075 835	99.999 99.999 99.999	50 95 75	99.999 99.999 99.999	1.0×10^8 9.3×10^7 8.1×10^7
Campylobacter jejuni (ATCC 29428)	A B	790 780	99.999 99.999	410 470	99.999 99.999	8.6×10^7 8.6×10^7
Escherichia coli O157:H7 (ATCC 43895)	A B	1220 1000	99.999 99.999	110 125	99.999 99.999	9.2×10^7 9.2×10^7
Listeria monocytogenes (ATCC 35152)	A B	<10 <10	>99.999 >99.999	<10 <10	>99.999 >99.999	7.8×10^8 7.8×10^8
Methicillin resistant *Staphylococcus aureus* (ATCC 33592)	A B	950 970	99.999 99.999	<10 <10	>99.999 >99.999	1.0×10^8 1.0×10^8
Salmonella typhi (ATCC 6539)	A B	<10 <10	>99.999 >99.999	<10 <10	>99.999 >99.999	1.4×10^8 1.4×10^8
Shigella sonnei (ATCC 11060)	A B	680 4500	99.999 99.999	<10 <10	>99.999 >99.999	9.3×10^7 9.3×10^7
Vancomycin resistant *Enterococcus faecalis* (ATCC 51299)	A B	<10 <10	>99.999 >99.999	<10 <10	>99.999 >99.999	1.2×10^8 1.2×10^8

SANITIZATION DATA (Food Contact Surfaces) Continued:						
Vibrio cholera (ATCC 14035)	A	<10	>99.999	<10	>99.999	8.3×10^7
	B	<10	>99.999	<10	>99.999	8.3×10^7
Yersinia enterocolitica (ATCC 23715)	A	108	99.999	<10	>99.999	1.7×10^8
	B	1300	99.999	263	99.999	5.9×10^8
		*TBC = Total Bacterial Count, organisms/mL † = % Kill calculation based on Initial Inoculum Control Count.				

Conclusion: Under the conditions of these investigations, **DISINFEXIT 10** demonstrated **sanitizing** activity against *Staphylococcus aureus, Escherichia coli, Campylobacter jejuni*, *Escherichia coli* O157:H7, *Listeria monocytogenes,* Methicillin resistant *Staphylococcus aureus*, *Salmonella typhi*, *Shigella sonnei*, Vancomycin resistant *Enterococcus faecalis*, *Vibrio cholera* and *Yersinia enterocolitica* according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.

SANITIZATION DATA (Food Contact Surfaces)
Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants
Test Conditions: Synthetic hard water as 650 ppm hardness (as $CaCO_3$)
300-400 ppm active quaternary (food processing equipment/utensils ONLY) 1.5-2.0 ounces / 4 gallon dilution

Results:		**TOTAL BACTERIAL COUNTS / % KILL vs. EXPOSURE TIME**				
		30 seconds		**60 seconds**		**Initial Inoculum**
Organism	**Sample**	**TBC***	**% Kill†**	**TBC***	**% Kill†**	**Control Count**
Klebsiella pneumoniae (ATCC 4352)	A	100	99.999	<10	>99.999	9.4×10^8
	B	310	99.999	<10	>99.999	9.4×10^8
		*TBC = Total Bacterial Count, organisms/ml † = % Kill calculation based on Initial Inoculum Control Count.				

Conclusion: Under the conditions of these investigations, **DISINFEXIT 10** demonstrated **sanitizing** activity against *Klebsiella pneumonia* at 300 ppm quaternary concentration and 650 ppm water hardness according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.

Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants
Test Conditions: synthetic hard water as **500 ppm** hardness (as $CaCO_3$)
200 ppm active quaternary (public eating establishments, dairies, and food processing equipment/utensils) 1 ounce/4 gallon dilution

Results:		**TOTAL BACTERIAL COUNTS / % KILL vs. EXPOSURE TIME**				
		30 seconds		60 seconds		Initial Inoculum
Organism	Sample	TBC*	% Kill†	TBC*	% Kill†	Control Count
Klebsiella pneumoniae (ATCC 4352)	A	340	99.999	<10	>99.999	1.1×10^8
	B	190	99.999	<10	>99.999	1.1×10^8
		*TBC = Total Bacterial Count, organisms/ml † = % Kill calculation based on Initial Inoculum Control Count.				

Conclusion: Under the conditions of these investigations, BTC® 2125M 10% Solution demonstrated **sanitizing** activity against *Klebsiella pneumoniae* at 200 ppm quaternary concentration and 500 ppm water hardness according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.

DISINFEXIT 10 Packaging

946 mL HDPE Bottle

3.78 Litre HDPE Jug

18.9 Litre HDPE Pail

PRECAUTIONS - KEEP OUT OF REACH OF CHILDREN.
WARNING: Skin and eye irritant. Harmful if swallowed. Do not mix with any other chemical. Avoid contact with undiluted product. Avoid contamination of food. Do not store in food processing or food storage areas.
FIRST AID - If in contact with eyes or skin, flush thoroughly with water for 15 minutes. For eye contact, get medical attention. If swallowed, drink two or three glasses of milk or water. Call a physician or poison control centre immediately. Take container, label or product name and DIN with you when seeking medical attention
NOTE TO PHYSICIAN - Probable mucosal damage may contraindicate the use of gastric lavage.
Storage at room temperature. Do not freeze.
DISPOSAL:
Rinse the emptied container thoroughly. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer.