



# Sanitrol-MB

## NO RINSE FOOD CONTACT SANITIZER AND DISINFECTANT

#### PEST CONTROL PRODUCTS ACT REGISTRATION NO. 23573 DIN NO. 02073021 FOOD PLANT APPROVED

**SANITROL - MB** is an economical sanitizer, virucide, fungicide, mildewcide and deodorant, used in a variety of applications. These may include sanitizing food processing equipment, dairy equipment, food utensils, dishes, glassware, sinks, counter tops, cutting boards, refrigerated storage and display equipment. It may also be used on poultry equipment, animal quarters, kennels and other hard non-porous surfaces, without a potable water rinse.

#### DISINFECTION IN HOSPITALS. NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS:

For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard non porous surfaces. Add 6 mL **SANITROL-MB** to 1 litre water Apply to previously cleaned hard surfaces. At this use level, **SANITROL-MB** is effective against Pseudomonas aeruginosa, Staphylococcus aureus and Salmonella choleraesuis in the presence of 5°/O blood serum, when evaluated by the AOAC Use-Dilution Test.

#### DISINFECTION OF Institutions, INDUSTRY AND SCHOOLS:

Add 6.0 mL of **SANITROL-MB** to 1 litre of water. At 1.75 mL/litre of water use level, the fungicidal effectiveness of **SANITROL-MB** in the presence of 5% blood serum against Trichophyton mentagrophytes has been shown, utilizing the AOAC FungicidalTest. Dishes, silverware, glasses, cooking utensils and other similar size food processing equipment can be sanitized by immersion in a 2 mL/L solution of SANITROL-MB. No potable rinse required.

#### DISINFECTION OF BARBER TOOLS:

Pre cleaned barber tools (such as combs, brushes, razors and scissors), can be disinfected by immersing in a 2 ml/L solution of **SANITROL-MB**.

#### DISINFECTION OF POULTRY EQUIPMENT. ANIMAL QUARTERS AND KENNELS:

Poultry brooders, watering fountains, feeding equipment and other animal quarters (such as stalls and kennel areas) can be disinfected after thoroughly cleaning by applying a solution of 6 mL **SANITROL-MB** to 1 litre of water. Small utensils should be immersed in this solution. Prior to disinfection, all poultry, other animals and their foods must be removed from the premises. This includes emptying all troughs, racks and other feeding and water appliances. Remove all litter and droppings from floors, walls and other surfaces occupied or traversed by poultry or other animals. After disinfection, ventilate buildings, coops and other closed spaces Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact food or drinking water must be rinsed with potable water before reuse.

#### Sanitrol - MB is effective in hard water areas up to 400 ppm hardness (calculated as CaCO<sub>3</sub>).

Areas of application: Hospitals, nursing homes, medical offices, institutions, farms, restaurants, food processing plants, dairies, bars, hair dressing salons, veterinarians, etc.

See label for complete directions before use.

**Sanitrol - MB** is a "One-Step" Hospital Disinfectant, Virucide, Fungicide, and Sanitizer. Listed below, and in the following pages, is a summary of the Antimicrobial Claims and a review of the test results.

Claim: Disinfectant	Contact Time: 10 minutes		Organic Soil: 5%	Water C Deionize	<b>onditions:</b> d	
Organism		ATCC#	Dilution		Replicates	Results
Brevibacterium						
Ammoniagenes		6871	450 ppm	20	0	/20
Campylobacter je	ejuni	29428	450 ppm	10, 10	0	/10, 0/10
Citrus Canker US	DA	46190	2000 ppn	n 10, 10	0	/10, 0/10
Escherichia coli		11229	450 ppm	20	0	/20
Escherichia coli 1		35150	450 ppm	10, 10	0	/10, 0/10
Klebsiella pneumoniae 435		4352	450 ppm	20	0	/20
Listeria monocytogenes 19115		19115	450 ppm	10, 10	0	/10, 0/10
Pseudomonas aeruginosa 15442			450 ppm	60, 60, 60, 40	0/60, 0/60	, 0/60, 0/40
Pseudomonas ce	pacia	17765	450 ppm	10, 10, 1	0 0	/10, 0/10, 0/10
Pseudomonas ce	pacia	25416	450 ppm	10, 10, 1	0 0	/10, 0/10, 0/10
Pseudomonas ce	pacia	25608	450 ppm	10, 10, 1	0 0	/10, 0/10, 0/10
Salmonella chole	rasuis	10708	450 ppm	30, 30, 3	0, 30 0	/30, 0/30, 0/30, 0/30
Salmonella typhi		6539	450 ppm	20	0	/20
Staphylococcus a	aureus	6538	450 ppm	60, 60, 6	0,40 0	/60, 0/60, 0/60, 0/40
Yersinia entrocoli	tica	9610	450 ppm	10, 10	0	/10, 0/10

Sanitrol - MB meets requirements for hard surface virucidal claims in hospital and medical environmentsClaim:Contact Time:Organic Soil:Water Conditions:

Virucide	10 minutes	5%	Deid	onized		
Organism Results	Source of Virus or ATCC#	Host System; Cytopathic Effect	Cor Tim	ntact Dil e	ution	Replicates Log 10 Reduction
Avian Influenza	Turkey/WIS SPAFAS LAB	Embroyonated Chicken Eggs	10 Min.	450 ppm	4	99.99%
Canine Distemper Herpes Simplex Type 1	VR-128 HSV-1 Sabin	Vero CCL-81 Human Epithelioma #2 cells; lytic cytopathic effect	10 Min. 2 Min.	450 ppm 450 ppm	2 8	99.99% >3.0
Herpes Simplex Type 2	HSV-2 Sabin	Human Epithelioma #2 cells; lytic cytopathic effect	2 Min.	450 ppm	8	>3.0
Infectious Bronchitis (Arkansas 99)	Arkansas 99	Embroyonated Chicken Eggs	10 Min.	450 ppm	4	99.99%
Influenza A2/ Hong Kong	ATCC 68- H3N2	MDCK cells; lytic cytopathic effect	2 Min	450 ppm	4	>4.5
Marek' Disease	SB-1	Primary chick embroyo fibroblasts (PCF)	10 Min,	450 ppm	4	99.99%
Newcastle' Disease Pseudorabies Virus	VR 108 VR-135	Fetal bovine serum MDBK Cells	10 Min. 10 Min.	450 ppm 450 ppm	4 2	>3.0 99.99%
Vaccinia	Wyeth strain	H. Ep. #2 cells fed with EMEM95CS5; Cytopathic Effects	2 Min.	450 ppm	8	>3.0

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**Sanitrol - MB** is an effective fungicide for nonporous inanimatehard surfaces when diluted 1:164 in the presence of 5% organic soil.

Claim: Fungicide	Contact Time: 10 minutes		<b>Orga</b> i 5%	nic Soil:	<b>Wate</b> Deio	er Condition nized	ıs:		
Organism	ATCC#	Dilution		Replicates		Results	s 5 Min	10 Min	15Min
Trichophyton Mentagrophytes	9533	450 ppm (0.78 oz/gal)	4		4	+	0	0	

**Sanitrol - MB** is an effective Food Contact Sanitizer against the above listed bacteria on hard non-porous surfaces when diluted as indicated in synthetic hard water.

Claim: Sanitizer Food Surfaces		Contact Time: 60 seconds	<b>Organic Soil:</b> Pre-clean		Water Conditions: Varies in CaCO <sub>3</sub> ppm	
Organism	ATCC#	Dilution	Wa Co	iter nditions	Replicates	Results % Reduction
Escherichia coli	11229	150 ppm (0.25 oz/gal)	400 ppm	4	>99.999	I
Staphylococcus aureus	6538	150 ppm	400 ppm	4	>99.999	)
Campylobacter jejuni	29428	200 ppm (0.34 oz/gal)	500 ppm	4	>99.999	)
Escherichia coli	11229	200 ppm (	500 ppm	4	>99.999	)
Escherichia1 coli	35150	200 ppm	500 ppm	4	>99.999	)
Klebsiella Pneumoniae	4352	200 ppm	500 ppm	10	>99.999	)
Listeria monocytogenes	19115	200 ppm	500 ppm	4	>99.999	1
Salmonella choleraesuis	10708	200 ppm	500 ppm	4	>99.999	1
Shigella sonneii	11060	200 ppm	500 ppm	4	>99.999	1
Staphylococcus aureus	6538	200 ppm	500 ppm	4	>99.999	1
Yersinia enterocolitica	9610	200 ppm	500 ppm	4	>99.999	1
Escherichia coli	11229	400 ppm	1000 ppm	10	>99.999	1
Staphylococcus aureus	6538	400 ppm	1000 ppm	10	>99.999	1

**Sanitrol - MB** is effective as a Non-Food Contact Sanitizer against the above listed bacteria on hard, non-porous surfaces when diluted as indicated.

Claim:	Contact	<b>t Time:</b>	<b>Organic Soil:</b>	Water Conditions:	
Sanitizer Non-Food	60 seco	inds	Pre Clean	1100 in CaCO <sub>3</sub> ppm	
Organism	ATCC#	Dilution	Replicates	Results % Reduction	
Klebsiella pneumoniae	4352	200 ppm	10	>99.999	
Staphylococcus aureus	6538	200 ppm	10	>99.999	

### Summary of Antimicrobial Efficacy - Etiology<sup>2</sup>

#### Pathogenic Microorganism Description

Avian Influenza Virus	A highly contagious virus which can cause up to 100% mortality in domestic fowl. Spread through direct or indirect contact with each other or equipment or humans
Brevibacterium ammoniage Campylobacter jejuni	Gram positive bacteria environmental contaminant. Associated with industrial contamination. Gram negative bacteria associated with acute gastroenteritis. Spread by anal/oral route of infection, resulting in diarrhea outbreaks
Canine Distemper Virus	An RNA virus causing fever, lack of appetite, and depression leading to more serious symptoms such as coughing, vomiting, diabarrea, and death in capines.
Citrus Canker	A highly contagious disease for citrus crops caused by bacteria which can defoliate crops as well as reduce fruit guality and cause premature fruit drop.
Escherichia coli	Gram negative bacteria spread by anal/oral route of infection, resulting in diarrhea outbreaks. Associated with urinary tract infections and bacteremia.
Herpes Simplex Type 1 & 2	Lipophilic (enveloped) DNA virus, may result in oral mucocutaneous lesions. Associated with most orofacial herpes and HSV encephalitis.
Infectious Bronchitis Virus	-
Arkansas 99	Effects are loss of egg production in chickens.
Influenza A2/Hong Kong	Lipophilic (enveloped) RNA virus. Causative agent in viral flu. Causes flu epidemics in nearly 2 of every 3 years.
Klebsiella pneumoniae	Gram negative bacteria associated with severe pneumonia, bacteremia and urinary tract infections.
Listeria monocytogenes	Gram positive (rod shape) bacteria. Considered a potent food pathogen. Found in raw meat and poultry. Infections can result in meningitis or sepsis.
Marek' Disease Virus	A chicken herpes virus causing abnormal cell growth on peripheral nerves and central nervous system of fowl, causing paralysis. Spread by dander on feather follicles, it can be excreted in saliva and can enter respiratory system.
Newcastle' Disease Virus	A viral infection in poultry transmitted by inhalation of infectious aerosols which can affect humans.
Pseudomonas aeruginosa	Gram negative bacteria identified as a major cause of hospital acquired (nosocomial) infections. Causes wound infections (especially burn), meningitis, pneumonia and eye infections. Required for
Descular and a second	Hospital Disintectants.
Pseudomonas cepacia	Gram negative bacteria identified as a cause of nospital acquired (nosocomial) infections. Causes septicemia, meningitis, endocarditis, pneumonia, eye wound and urinary tract infections, especially with the chronically ill
Pseudorabies Virus	with the chronically in. A extremely contactions bernes virus causing ranid death in animals. Also known as Autoszky'
Salmonolla typhi	Disease Cram populiyo (red shaped) bacteria directly spread by appl/oral route of infection; indirectly
	(including food, hands, flies) spread by contaminated food and inanimate objects Caustive agent for typhoid fever.
Salmonella choleraesuis	Gram negative bacteria associated with acute gastroenteritis and septicemia. Required for Hospital Disinfectants.
Shigella sonneii	Gram negative bacteria causing Shigellosis (bacillary dysentery). Highly infectious food borne illness spread primarily by oral-fecal route. Unsanitary food handling and contaminated water are most common causes of contaminated food.
Staphylococcus aureus	Gram positive bacteria identified as a major cause of hospital acquired (nosocomial) infections. Colonizes food and secretes enterotoxins which cause food poisoning after ingestion. Causes wound
	niecuons, sepucenna, enuocarums, meningius, osieomynus anu prieumonia. Requireu ior nospital Disinfectants
Trichophyton mentagrophy	Athlete's foot fungus. Found in shower and dressing rooms
Vaccinia	Lipophilic (enveloped) DNA posvirus: causes posvirus infections
Yersinia enterocolitica	Small gram negative coccobacilli. A zoonotic agent, infections can be passed from animals to humans. A potent food pathogen. Infections can cause abdominal pain, diarrhea, and fever.

<sup>2</sup> Microbiology, D. Kingsbury and G. Wagner Harwal Publishing 1990