

# Microcide TB

## Disinfectant Cleaner

### **A Breakthrough in Disinfectant Technology**

- CLEANER
- DEODORIZER
- DISINFECTANT
- VIRUCIDE\*
- TUBERCULOCIDAL
- FUNGICIDE (against pathogenic fungi)
- MILDEWSTAT (on hard inanimate surfaces)
- Fresh Scent
- Ready-to-Use (RTU) Disinfectant Spray

#### **Recommended for use in:**

Hospitals, Nursing Homes, Patient Rooms, Operating Rooms, ICU areas, Homes, Bathrooms, Shower Rooms, Locker Rooms, Public Restrooms, Office Buildings, Manufacturing Facilities, Hotels, Retail, Athletic/Recreational Facilities etc.

#### **Use on:**

Floors, Walls, Metal Surfaces, Stainless Steel Surfaces, Glazed Porcelain, Glazed Ceramic Tile, Plastic Surfaces, Chrome, Brass, Copper, Laminated Surfaces, Baked Enamel Surfaces, Bathrooms, Shower Stalls, Bathtubs, Cabinets, Counters and Sinks.

**Meets OSHA Bloodborne Pathogen  
Standard for HIV, HBV & HCV.**

**EPA Registration Number: 1839-83-5449**

**EPA Establishment Number: 5449-MN-1**

**US Patent No. 5,444,094**

# Microcide TB Disinfectant Cleaner

Microcide TB Disinfectant Cleaner is a one-step hospital-use germicidal disinfectant cleaner and deodorant designed for general cleaning, disinfecting and controlling mold and mildew on hard, non-porous inanimate surfaces. Quickly removes dirt, grime, mold, mildew, food residue, blood and other organic matter commonly found in health care facilities. It also eliminates odors leaving restroom surfaces smelling clean and fresh. Use where odors are a problem. For plastic and painted surfaces, spot test on an inconspicuous area before use. When used as directed, Microcide TB Disinfectant Cleaner contains 2,100 ppm of active germicide making it highly effective against a broad-spectrum of pathogenic microorganisms (including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew).

**DISINFECTION, DEODORIZING AND CLEANING** - Remove gross filth or heavy soil prior to application of the product. Hold container six to eight inches from surface to be treated. Spray area until it is covered with the solution. Allow product to penetrate and remain wet for 3 minutes (for Bloodborne Pathogens: allow surface to remain wet for HIV-1, 1 minute and for HBV and HCV, 5 minutes). No scrubbing is necessary. Wipe off with a clean cloth, mop or sponge. The product will not leave grit or soap scum.

Using approved AOAC test methods (under Good Laboratory Practices, [GLPs]), in the presence of 5% blood serum and a 3 minute contact time, unless otherwise noted, this product kills the following organisms on hard non-porous inanimate surfaces.

**BACTERICIDAL ACTIVITY (BACTERIA):** Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Escherichia coli 0157:H7, Escherichia coli, Listeria monocytogenes, Yersinia enterocolitica, Enterococcus faecium, Corynebacterium ammoniagenes, Salmonella typhi, Streptococcus pyogenes (Necrotizing Fasciitis Group A)(VA Medical Center Isolate).

**ANTIBIOTIC-RESISTANT BACTERICIDAL ACTIVITY:** Methicillin resistant Staphylococcus aureus (MRSA), Vancomycin intermediate resistant Staphylococcus aureus (VISA), Vancomycin resistant Enterococcus faecalis (VRE), Methicillin resistant Staphylococcus epidermidis (MRSE).

**Now effective against: C. diff.**  
This product exhibits effective disinfectant activity against **Clostridium difficile** vegetative form, ATCC 9689, when the treated surface is allowed to remain wet for **1 minute (60 seconds)**.

**TUBERCULOCIDAL ACTIVITY** - This product exhibits disinfectant efficacy against Mycobacterium tuberculosis (BCG) at 20 degrees Centigrade when the treated surface is allowed to remain wet for 5 minutes.

**\*VIRUCIDAL ACTIVITY - VIRUCIDAL ACTIVITY** - This product kills on hard, non-porous inanimate surfaces when allowed to remain wet for a **10 minute** contact time against: **Poliovirus Type 1, Hepatitis A Virus (HAV) and Canine Parvovirus**. This product, when used on environmental, inanimate hard surfaces exhibits virucidal activity against **Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Bovine Viral Diarrhea Virus (BVDV)** when the treated surface is allowed to remain wet for **5 minutes**; **Human Coronavirus and SARS associated Coronavirus** when the treated surface is allowed to remain wet for **2 minutes**; **HIV-1 (associated with AIDS)** when the treated surface is allowed to remain wet for **1 minute (60 seconds)**; **Norovirus (Norwalk virus), Feline Calicivirus and Rabies Virus** when the treated surface is allowed to remain wet for **30 seconds**.

**KILLS HIV-1, HBV, AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings (Hospitals, Nursing Homes) or 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 Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

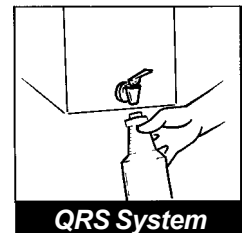
**FUNGICIDAL ACTIVITY** - This product is fungicidal against the pathogenic fungus, **Trichophyton mentagrophytes** (Athlete's Foot Fungus)(a cause of ringworm), when used with a 10 minute contact time on clean, nonporous, hard surfaces as found in bathrooms, showers stalls, locker rooms, or other areas commonly contacted by bare feet.

**MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces spray surface to be treated making sure to wet completely. Let air dry. Repeat application at weekly intervals or when mildew growth appears.

## SPECIFICATIONS FOR MICROCID TB

Appearance ..... Clear liquid  
Fragrance ..... Fresh Scent  
Density lbs./US gal.(g/ml) ..... 8.38 (1.01)  
pH ..... 11.0-11.5  
Contact time: ..... 30 Seconds to 10 minutes  
(see label for specific instructions)  
Viscosity cps @ 25°C ..... Water thin  
Flashpoint SETA °C (°F) ..... > 94 (>201)  
RVOC, US EPA% ..... 0  
Phosphate (%) ..... 0

Packaging	
55 gallon	#910243
5 gallon	#910245
12 qt./case	#910248



**WARNING & DISCLAIMER:** Results may vary. Multi-Clean chemicals are to be used only by appropriately trained personnel. IMPROPER USE POSES RISK OF PHYSICAL INJURY OR PROPERTY DAMAGE. See appropriate Multi-Clean Method Bulletin for further warnings and information for your application. The suitability of and proper application of this product is the responsibility of the applicator. The manufacturer disclaims all warranties, express and implied, including any warranties of MERCHANTABILITY AND FITNESS OF PURPOSE. The manufacturer's liability is limited to replacement of or reimbursement for any product proved defective. No person has authority to waive these disclaimers or make any representations or warranties on behalf of the manufacturer, except in writing signed by the manufacturer.

# Efficacy Data for Microcide TB Disinfectant Cleaner

(EPA Reg. No. 1839-83-5449)

## VIRUCIDAL DATA:

**Test Method:** \* U.S. EPA Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2(f), and Section 91-30(d), (e), November, 1982. \*\* Protocols for Testing the Efficacy of Disinfectants against Hepatitis B (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828). \*\*\* Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002. \*\*\*\*Modified U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2(f), and Section 91-30 (d), (e), November, 1982

**Test Conditions:** Ready-to-Use (RTU), organic soil load, room temperature, glass petri dish substrates

### Results:

Test Organism	Sample	Titer Reduction	Contact Time
*** Bovine Viral Diarrhea Virus (BVDV)	A & B	>5.5 log <sub>10</sub>	10 Minutes
* Canine Parvovirus (ATCC VR-2017)	A & B	>3.0 log <sub>10</sub>	10 Minutes
**** Feline Calicivirus (FCV)	A & B	>6.48 log <sub>10</sub>	30 Seconds
*** Hepatitis A Virus (HAV)	A & B	>3.0 log <sub>10</sub>	10 Minutes
** Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	A & B	>3.0 log <sub>10</sub>	5 Minutes
*** Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BHBV)	A & B	>3.0 log <sub>10</sub>	5 Minutes
* Human Immunodeficiency virus, HTLV-III <sub>RE</sub> strain of HIV-1 (associated with AIDS)	A & B	>3.5 log <sub>10</sub>	1 Minutes
* Human Coronavirus (ATCC VR-740, strain 229E)	A & B	>3.0Log <sub>10</sub>	2 Minutes
**** Norovirus (Norwalk Virus)	A & B	>6.48 log <sub>10</sub>	30 Seconds
* Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)	A & B	>3.25 log <sub>10</sub>	10 Minutes
* Rabies Virus (attenuated ERA Strain, CDC)	A & B	3.0 log <sub>10</sub>	30 Seconds
SARS Associated Coronavirus (ZeptoMetrix)	A & B	4.03 log <sub>10</sub>	2 Minutes

### Conclusion:

Under the conditions of this investigation, Microcide TB Disinfectant Cleaner was **Virucidal** for Bovine Viral Diarrhea Virus (BVDV), Canine Parvovirus, Feline Calicivirus (FCV), Hepatitis A Virus (HAV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Human Immunodeficiency Virus (HIV-1), Human Coronavirus, Norovirus (Norwalk Virus), Poliovirus Type 1, Rabies and SARS Associated Coronavirus according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

## TUBERCULOCIDAL DATA:

**Test Method:** AOAC Confirmative In Vitro Test for Determining Tuberculocidal Activity

**Test Organism:** Mycobacterium bovis BCG (Organon Teknika)

**Test Conditions:** Ready-to-Use (RTU), Organic soil load, 5 minute contact time, glass slide carrier substrates

### Results:

Subculture Media	Sample	Exposed Carriers	No. of Carriers Showing Growth
Modified Proskauer-Beck Medium	A	10	0
	B	10	0
Middlebrook 7H9 Broth	A	10	0
	B	10	0
Kirchners Medium	A	10	0
	B	10	0

### Conclusion:

Under the conditions of this investigation, Microcide TB Disinfectant Cleaner was **tuberculocidal** for *Mycobacterium bovis* (BCG) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a tuberculocide.

## MILDEW FUNGISTATIC DATA:

**Test Method:** EPA Hard Surface Mildew Fungistatic Test

**Test Organism:** *Aspergillus niger* (ATCC 6275)

**Test Conditions:** Glazed ceramic tile substrates

### Results:

Sample	No. of Exposed Tiles	No. of Tiles Showing Growth
Microcide TB	10	0
Control	10	10

### Conclusion:

Under the conditions of this investigation, Microcide TB Disinfectant Cleaner was fungistatic for *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.

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## BACTERICIDAL AND FUNGICIDAL DATA:

**Test Methods:** AOAC Germicidal Spray Products as Disinfectants

**Test Conditions:** Ready-to-Use (RTU), organic soil load, room temperature, glass slide carrier substrates

### Results:

Organism	Sample	No. of Carriers		Contact Time
		Exposed	Positive	
<i>Staphylococcus aureus</i> (ATCC 6538)	A & B	60	0	3 Minutes
<i>Salmonella choleraesuis</i> (ATCC 10708)	A & B	60	0	3 Minutes
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	A & B	60	0	3 Minutes
<i>Clostridium difficile</i> vegetative form (ATCC 9689)	A & B	10	0	1 Minute
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	A & B	10	0	3 Minutes
<i>Enterococcus faecium</i> (ATCC 6569)	A & B	10	0	3 Minutes
<i>Escherichia coli</i> (ATCC 11229)	A & B	10	0	3 Minutes
<i>Escherichia coli</i> 0157:H7 (ATCC 43895)	A & B	10	0	3 Minutes
<i>Listeria monocytogenes</i> (ATCC 35152)	A & B	10	0	3 Minutes
<i>Salmonella typhi</i> (ATCC 6839)	A & B	10	0	3 Minutes
Streptococcus Pyogenes (Necrotizing Fasciitis-Group A) (V.A) Medical Center Isolate 04001)	A & B	10	0	3 Minutes
<i>Yersinia enterocolitica</i> (ATCC 23715)	A & B	10	0	3 Minutes
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33593)	A B	10 10	0 0	3 Minutes
Methicillin resistant <i>Staphylococcus epidermidis</i> (MRSE) (ATCC 51625)	A B	10 10	0 0	3 Minutes
Vancomycin resistant <i>Enterococcus faecalis</i> (VRE) (ATCC 51575)	A B	10 10	0 0	3 Minutes
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA) (CDC Isolate 99287)	A B	10 10	0 0	3 Minutes
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	A B C	60 60 60	0 0 0	10 Minutes

**Conclusion:** Under the conditions of this investigation, Microcide TB Disinfectant Cleaner was **bactericidal** for *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Clostridium difficile* vegetative form, *Corynebacterium ammoniagenes*, *Enterococcus faecium*, *Escherichia coli*, *Escherichia coli* 0157:H7, *Listeria monocytogenes*, *Salmonella typhi*, *Yersinia enterocolitica*, Methicillin resistant *Staphylococcus aureus* (MRSA), Vancomycin resistant *Enterococcus faecalis* (VRE) and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) and **fungicidal** for *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide and fungicide.

**Multi-Clean®**

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