# Technical Information



## Swish® Miracle

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# EFFICACY DATA for SWISH MIRACLE (EPA Reg. No. 1839-83)

#### **VIRUCIDAL DATA:**

#### Test Methods:

- \* U.S. E.P.A. 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 Virus (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:** 

<u>Test Organism</u>	<u>Sample</u>	Titer Reduction	Contact Time
*Avian Influenza A Virus (H3N2) (Avian Reassortant) (ATCC VR-207	2) A&B	$\geq 3.0 \log_{10}$	2 minutes
*Avian Influenza Virus, Type A (Turkey/WIS/66) (H9N2)	A&B	$\geq$ 4.83 $\log_{10}$	2 minutes
‡Bovine Viral Diarrhea Virus (BVDV)	A&B	$\geq 3.0 \log_{10}$	5 minutes
*Canine Parvovirus (ATCC VR-2017)	A&B	$\geq 3.0 \log_{10}$	10 minutes
•Feline Calicivirus (FCV)	A&B	6.48 log <sub>10</sub>	30 seconds
*Hepatitis A Virus (HAV)	A&B	$\geq 3.0 \log_{10}$	10 minutes
†Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	A&B	$\geq 3.3 \log_{10}$	5 minutes
#Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A&B	$\geq 3.0 \log_{10}$	5 minutes
*Human Immunodeficiency Virus, HTLV-III <sub>RF</sub> , strain of HIV-1 (associated with AIDS)	A&B	≥3.5 log <sub>10</sub>	1 minute
*Human Coronavirus (ATCC VR-740, strain 229E)	A&B	$\geq 3.0 \log_{10}$	2 minutes
•Norovirus (Norwalk Virus)	A&B	6.48 log <sub>10</sub>	30 seconds
*Pandemic 2009 H1N1 Influenza A Virus	(Refer to NOTE on next page.)		2 minutes
*Paramyxovirus (Mumps) (ATCC VR-1438)	A&B	$\geq 3.0 \log_{10}$	3 minutes
*Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)	A&B	$\geq 3.25 \log_{10}$	10 minutes
*Rabies Virus (attenuated ERA strain, CDC)	A&B	$3.0 \log_{10}$	30 seconds
*Rhinovirus Type 39 (ATCC VR-340)	A&B	$\geq 3.0 \log_{10}$	3 minutes
*Rotovirus	A&B	$\geq 3.0 \log_{10}$	3 minutes
*SARS Associated Coronavirus (ZeptoMetrix)	A&B	$4.03 \log_{10}$	2 minutes

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#### **VIRUCIDAL DATA** (continued):

Conclusion: Under the conditions of this investigation, Detergent Disinfectant Pump Spray demonstrated virucidal activity against Avian Influenza A Virus (H3N2), Avian Influenza Virus Type A (H9N2), 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), Pandemic 2009 H1N1 Influenza A Virus, Paramyxovirus (Mumps), Poliovirus Type 1, Rabies, Rhinovirus Type 39, Rotovirus, 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.

**NOTE:** Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

#### **TUBERCULOCIDAL DATA:**

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

Test Organism: Mycobacterium bovis BCG

**Test Conditions:** ready-to-use (RTU), organic soil load, 5 minute contact time, glass slide carrier substrates

**Results:** 

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

**Conclusion:** Under the conditions of this investigation, Detergent Disinfectant Pump Spray demonstrated **tuberculocidal** activity against *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.

#### **FUNGICIDAL DATA:**

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

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

**Results:** 

	No. of Carriers			
<u>Organism</u>	<b>Sample</b>	<b>Exposed</b>	<u>Positive</u>	Contact Time
Trichophyton mentagrophytes (ATCC 9533)	A	60	0	10 minutes
	В	60	0	
	C	60	0	

**Conclusion:** Under the conditions of this investigation, Detergent Disinfectant Pump Spray demonstrated **fungicidal** activity against *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.



### **BACTERICIDAL DATA:**

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

Test Conditions: ready-to-use (RTU), organic soil load, room temperature, glass slide carrier substrates

Organism         Sample         Exposed         Positive         Contact Time           Staphylococcus aureus (ATCC 6538)         A         60         0         3 minutes           Salmonella (choleraesuis) enterica (ATCC 10708)         A         60         0         3 minutes           Pseudomonas aeruginosa (ATCC 15442)         A         60         0         3 minutes           Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123) Genotype USA400         B         10         0         3 minutes           COmmunity Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123) Genotype USA400         B         10         0         3 minutes           COrymebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         3 minutes           Methicillin resista	Results:		No. of C	Carriers	
Salmonella (choleraesuis) enterica (ATCC 10708)	<u>Organism</u>	<u>Sample</u>	<b>Exposed</b>	<u>Positive</u>	Contact Time
Salmonella (choleraesuis) enterica (ATCC 10708)	Staphylococcus aureus (ATCC 6538)			0	3 minutes
Pseudomonas aeruginosa (ATCC 15442)		B	60	1	
Pseudomonas aeruginosa (ATCC 15442)	Salmonella (choleraesuis) enterica (ATCC 10708)	A	60	0	3 minutes
B   60   0		B	60	0	
Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123) Genotype USA400         A         10         0         3 minutes           CO-MRSA) (NRS 123) Genotype USA400         B         10         0         3 minutes           Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 384) Genotype USA300         B         10         0         3 minutes           Corynebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           Methicillin resistant Staphylococcus epidermidis (MRSE)         A         10         0         3 minutes           ATCC 31625)         B         10         0         3 minutes           <	Pseudomonas aeruginosa (ATCC 15442)	A		0	3 minutes
(CA-MRSA) (NRS 123) Genotype USA400         B         10         0           Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 384) Genotype USA300         B         10         0           Corynebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           Methicillin resistant Staphylococcus epidermidis (MRSE)         A         10         0         3 minutes           Salmonella (typhi) enterica (ATCC 6539)         A         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minutes           VA. Medical Center Isolate 04001)         B <t< td=""><td></td><td>B</td><td>60</td><td>0</td><td></td></t<>		B	60	0	
Community Associated Methicillin Resistant Staphylococcus aureus         A         10         0         3 minutes           (CA-MRSA) (NRS 384) Genotype USA300         B         10         0         3 minutes           Corynebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           (ATCC 33593)         B         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           Salmonella (typhi) enterica (ATCC 6539)         A         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minut				0	3 minutes
(CA-MRSA) (NRS 384) Genotype USA300         B         10         0           Corynebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           (ATCC 33593)         B         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           (ATCC 51625)         A         10         0         3 minutes           Salmonella (typhi) enterica (ATCC 6539)         A         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minutes           (V.A. Medical Center Isolate 04001) <td>(CA-MRSA) (NRS 123) Genotype USA400</td> <td>B</td> <td>10</td> <td>0</td> <td></td>	(CA-MRSA) (NRS 123) Genotype USA400	B	10	0	
Corynebacterium ammoniagenes (ATCC 6871)         A         10         0         3 minutes           Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli (O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           Methicillin resistant Staphylococcus epidermidis (MRSE)         A         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minutes           Vancomycin resistant Enterococcus faecalis (VRE)         A         10         0         3 minutes           Vancomycin intermediate resistant Staphylococcus aureus (VISA)         A         10         <			10	0	3 minutes
B   10   0	(CA-MRSA) (NRS 384) Genotype USA300	B	10	0	
Enterococcus faecium (ATCC 6569)         A         10         0         3 minutes           Escherichia coli (ATCC 11229)         A         10         0         3 minutes           Escherichia coli O157:H7 (ATCC 43895)         A         10         0         3 minutes           Escherichia coli O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           (ATCC 33593)         B         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           Salmonella (typhi) enterica (ATCC 6539)         A         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minutes           (V.A. Medical Center Isolate 04001)         B         10         0         3 minutes           Vancomycin intermediate resistant Staphylococcus aureus (VISA)         A         10         0         3 minutes	Corynebacterium ammoniagenes (ATCC 6871)			0	3 minutes
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B   10   0		В	10	0	
Escherichia coli O157:H7 (ATCC 43895)         A         10         0         3 minutes           Listeria monocytogenes (ATCC 35152)         A         10         0         3 minutes           Methicillin resistant Staphylococcus aureus (MRSA)         A         10         0         3 minutes           (ATCC 33593)         B         10         0         3 minutes           Methicillin resistant Staphylococcus epidermidis (MRSE)         A         10         0         3 minutes           (ATCC 51625)         B         10         0         3 minutes           Salmonella (typhi) enterica (ATCC 6539)         A         10         0         3 minutes           Streptococcus pyogenes (Necrotizing Fasciitis-Group A)         A         10         0         3 minutes           (V.A. Medical Center Isolate 04001)         B         10         0         3 minutes           (ATCC 51575)         B         10         0         3 minutes           Vancomycin intermediate resistant Staphylococcus aureus (VISA)         A         10         0         3 minutes           Vancomycin entermediate resistant Staphylococcus aureus (VISA)         A         10         0         3 minutes           Vancomycin intermediate resistant Staphylococcus aureus (VISA)         A	Escherichia coli (ATCC 11229)	A	10	0	3 minutes
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Listeria monocytogenes (ATCC 35152)       A       10       0       3 minutes         B       10       0       3 minutes         Methicillin resistant Staphylococcus aureus (MRSA)       A       10       0       3 minutes         (ATCC 33593)       B       10       0       3 minutes         Methicillin resistant Staphylococcus epidermidis (MRSE)       A       10       0       3 minutes         (ATCC 51625)       B       10       0       3 minutes         Salmonella (typhi) enterica (ATCC 6539)       A       10       0       3 minutes         Streptococcus pyogenes (Necrotizing Fasciitis-Group A)       A       10       0       3 minutes         (V.A. Medical Center Isolate 04001)       B       10       0       3 minutes         (V.A. Medical Center Isolate 04001)       B       10       0       3 minutes         (ATCC 51575)       B       10       0       3 minutes         (ATCC 51575)       B       10       0       3 minutes         (CDC Isolate 99287)       B       10       0       3 minutes         Yersinia enterocolitica (ATCC 23715)       A       10       0       3 minutes	Escherichia coli O157:H7 (ATCC 43895)	A	10	0	3 minutes
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Methicillin resistant Staphylococcus aureus (MRSA)       A       10       0       3 minutes         (ATCC 33593)       B       10       0       3 minutes         Methicillin resistant Staphylococcus epidermidis (MRSE)       A       10       0       3 minutes         (ATCC 51625)       B       10       0       3 minutes         Salmonella (typhi) enterica (ATCC 6539)       A       10       0       3 minutes         Streptococcus pyogenes (Necrotizing Fasciitis-Group A)       A       10       0       3 minutes         (V.A. Medical Center Isolate 04001)       B       10       0       3 minutes         Vancomycin resistant Enterococcus faecalis (VRE)       A       10       0       3 minutes         (ATCC 51575)       B       10       0       3 minutes         Vancomycin intermediate resistant Staphylococcus aureus (VISA)       A       10       0       3 minutes         (CDC Isolate 99287)       B       10       0       3 minutes         Yersinia enterocolitica (ATCC 23715)       A       10       0       3 minutes	Listeria monocytogenes (ATCC 35152)	A	10	0	3 minutes
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(ATCC 51625)       B       10       0         Salmonella (typhi) enterica (ATCC 6539)       A       10       0       3 minutes         B       10       0       3 minutes         Streptococcus pyogenes (Necrotizing Fasciitis-Group A)       A       10       0       3 minutes         (V.A. Medical Center Isolate 04001)       B       10       0       3 minutes         Vancomycin resistant Enterococcus faecalis (VRE)       A       10       0       3 minutes         (ATCC 51575)       B       10       0       3 minutes         (CDC Isolate 99287)       B       10       0       3 minutes         Yersinia enterocolitica (ATCC 23715)       A       10       0       3 minutes	Methicillin resistant <i>Staphylococcus epidermidis</i> (MRSE)	A	10	0	3 minutes
B   10   0     Streptococcus pyogenes (Necrotizing Fasciitis-Group A)   A   10   0   3 minutes (V.A. Medical Center Isolate 04001)   B   10   0     Vancomycin resistant Enterococcus faecalis (VRE)   A   10   0   3 minutes (ATCC 51575)   B   10   0     Vancomycin intermediate resistant Staphylococcus aureus (VISA)   A   10   0   3 minutes (CDC Isolate 99287)   B   10   0     Versinia enterocolitica (ATCC 23715)   A   10   0   3 minutes		В	10	0	
B   10   0     Streptococcus pyogenes (Necrotizing Fasciitis-Group A)   A   10   0   3 minutes (V.A. Medical Center Isolate 04001)   B   10   0     Vancomycin resistant Enterococcus faecalis (VRE)   A   10   0   3 minutes (ATCC 51575)   B   10   0     Vancomycin intermediate resistant Staphylococcus aureus (VISA)   A   10   0   3 minutes (CDC Isolate 99287)   B   10   0     Versinia enterocolitica (ATCC 23715)   A   10   0   3 minutes	Salmonella (typhi) enterica (ATCC 6539)	A	10	0	3 minutes
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(ATCC 51575)B100Vancomycin intermediate resistant Staphylococcus aureus (VISA)A1003 minutes(CDC Isolate 99287)B100Yersinia enterocolitica (ATCC 23715)A1003 minutes		В	10	0	
(ATCC 51575)B100Vancomycin intermediate resistant Staphylococcus aureus (VISA)A1003 minutes(CDC Isolate 99287)B100Yersinia enterocolitica (ATCC 23715)A1003 minutes	Vancomycin resistant <i>Enterococcus faecalis</i> (VRE)	A	10	0	3 minutes
(CDC Isolate 99287)         B         10         0           Yersinia enterocolitica (ATCC 23715)         A         10         0         3 minutes		В			
(CDC Isolate 99287)         B         10         0           Yersinia enterocolitica (ATCC 23715)         A         10         0         3 minutes	Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA)	A	10	0	3 minutes
	Yersinia enterocolitica (ATCC 23715)	A	10	0	3 minutes
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#### **BACTERICIDAL DATA** (continued):

Conclusion: Under the conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) was bactericidal for Staphylococcus aureus, Salmonella (choleraesuis) enterica, Pseudomonas aeruginosa, Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123) Genotype USA400, Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 384) Genotype USA300, Corynebacterium ammoniagenes, Enterococcus faecium, Escherichia coli, Escherichia coli O157:H7, Listeria monocytogenes, Methicillin resistant Staphylococcus aureus (MRSA), Methicillin resistant Staphylococcus epidermidis (MRSE), Salmonella (typhi) enterica, Streptococcus pyogenes (Necrotizing Fasciitis-Group A), Vancomycin resistant Enterococcus faecalis (VRE), Vancomycin intermediate resistant Staphylococcus aureus (VISA) and Yersinia enterocolitica according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

#### **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 Sample	No. of Exposed Tiles	No. of Tiles Showing Growth
DDPS	10	0
Control	10	10

**Conclusion:** Under the conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) demonstrated **fungistatic** activity against *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.