







# BioSURF





# **ONE-STEP**HARD SURFACE DISINFECTANT

BioSURF is the world's fastest one step ready-to-use, broadspectrum, hospital level surface disinfectant. Unlike most disinfectants that can take up to 10 minutes to clean and disinfect, BioSURF works within 50 seconds. BioSURF is the perfect choice for rapid disinfection of counters, trays, impressions, medical devices, metal instruments and other hard surfaces. Lime and mango scented.



DIN 02209756

# VIRUCIDAL · BACTERICIDAL · FUNGICIDAL · TUBERCULOCIDAL

# **FASTER**



#### **ONE-STEP Disinfection**

Clean & disinfect in one step enabling quicker turn around times and less product wastage



#### 1 Minute Contact Time

Fast broad spectrum surface disinfectant kill time across all four pathogen categories allows for faster client turnaround time



### **Broad Spectrum Disinfectant**

Effective against TB, HBV, HCV, HIV, STAPH, COVID-19, MRSA, Fungi & more

# **SAFER**



#### **Hard Surfaces**

Removes and disinfects blood, proteins, lipids, waxes, oils, inks and dyes off hard surfaces. Will not corrode, stain or rust metal.



#### **Porous Surfaces**

Designed to penetrate porous surfaces for maximum effectiveness. Effective against mature pellicle colonies (biofilm) of *Pseudomonas sp.* 



#### Safe for Users

Does not contain quats, phenols, peroxides or aldehydes. Is a non-toxic disinfectant made from plant-based ingredients. No PPE necessary.

# **KINDER**



#### **Environmentally Friendly**

All products are made with biodegradable, plant-based ingredients



#### **Certified Biodegradable**

All ingredients are certified USP Pharma grade and/or food grade quality



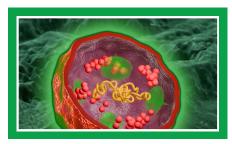
#### Recyclable Packaging

Bag-in-Box and spray bottles are designed to be environmentally friendly





#### THE SURFOL



SurfOL, Micrylium's proprietary surfactant, eliminates the air between the disinfectant and the surface to be cleaned. This allows for the immediate contact of the disinfectant and the flattened pathogen. The result is a faster kill time.

#### THE CHAIR THEORY



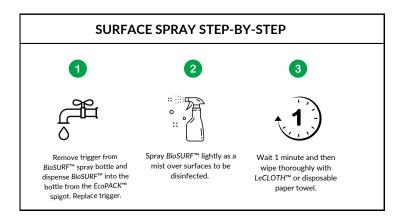
Micrylium's product development strategy is based on "The Chair Theory". The four legs of the chair, which keep it balanced, are the four major categories of pathogens. The kill times advertised on competitor products reflect the pathogens with the fastest results. For example; competitors may achieve a 1-minute kill on TB and 15 minutes on Poliovirus but advertise only 1-minute. We advertise a kill time that balances the kill rates of all 4 pathogens.

#### WHY ONE-STEP?



Precleaning only spreads bacterial contamination. BioSURF contains special surfactant/detergents that clean, penetrate and disinfect microbial contamination. If your protocol insists on two step cleaning and disinfection (or there is a large body fluid spill) use BioSURF for both steps to minimize harm to staff and reduce the risk of vector transmission.

#### **HOW TO USE**





#### PRODUCT SPECIFICATION DATA

Item Number	Product Description	Packaging
01-SURF-060	BioSURF 60mL Mini Spray Bottle RTU	Case of 10
01-SURF-704	BioSURF 710mL Spray Bottle RTU	Case of 4
01-SURF-001	BioSURF 1L Bag-in-Box RTU	1 Box
01-SURF-005	BioSURF 5L Bag-in-Box RTU	1 Box























#### **CONTACT TIME**

Pathogen Type	Strain	Effective Contact Time		
Bacteria	Salmonella choleraesuis (ACC 10708)	10 seconds		
Bacteria	Staphylococcus aureus (ATCC 6538)	10 seconds		
Bacteria	Pseudomonas aeruginosa (ATCC 15442) (10% soil)	20 seconds		
Bacteria	Escherichia coli (NCTC 10541) (6.2% soil)	20 seconds		
Bacteria	Enterococcus hirae (ATCC 10541) (6.2% soil)	50 seconds		
Bacteria	Proteus mirabilis (ATCC 14153) (6.2% soil)	50 seconds		
Mycobacterium	Mycobacterium bovis BCG( 5% soil/bioburden)	50 seconds		
Mycobacterium	Mycobacterium terrae (ATTC 15755) (4.6% soil)	50 seconds		
Mycobacterium	Mycobacterium smegmatis (*Tuberculocidal activity) (PN 1034)	60 seconds		
Virus	Coronavirus 2 (SARS-CoV-2)	10 seconds		
Virus	Coronavirus 19 (SARS-CoV-19)	10 seconds		
Virus	Human Immunodeficiency Virus Type1 HTlV-111	20 seconds		
Virus	Adenovirus Type 5	30 seconds		
Virus	Canine Parvovirus CPV-265 (5% soil)	50 seconds		
Virus	Hepatitis B Virus (HBV) Duckling Test (100% blood)	50 seconds		
Fungi	Trichophyton menghini (ATCC 12106) ( 10% soil)	20 seconds		
Fungi	Candida albicans (ATCC 10231) (6.2% soil)	50 seconds		
Fungal Spores	Trichophyton mentagrophytes (ATCC 9533)	10 seconds		

Note: Initial Formulation Batch (aged 60 days) tested on 60 replicates as indicated in AOAC method 955.15 for confidence level of 95%.

Each Production Batch is tested with 10 replicates (0% failure) to monitor ongoing quality control specifications for each product.

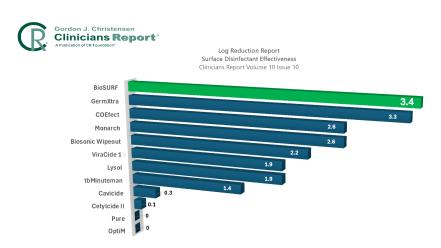
\* Testing performed at Nucro-Technics Laboratory, 2000 Ellesmere Road, Unit 16 Scarborough, Ontario

All other tests performed at Micrylium Laboratories, 117 Dolomite Drive, North York, Ontario

#### INDEPENDENT TEST RESULTS

"After 40+ years of a worldwide search that includes extensive microbial testing of now 190+ products, one has finally met the necessary essentials in all three surface disinfectant components - **BioSURF**<sup>TM</sup>."

Dr. Gordon J. Christensen, DDS, MSD, PhD











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1. IDENTIFI	CATION	D: 01:==					1	P 1 2 2 2			
Product Name		BioSURF	02209756		Manufactui	er		rylium Laboratories	nc.		
Registration	tion CAN DIN 02209756 US EPA 70467-3				Address		5000M Dufferin Street, Toronto, Canada,				
	•	US FDA	D142277					H 5T5			
		CH BAG	CHZB016	3	7			w.micrylium.com			
Indication		Hospital hard surface disinfectant				Phone 416-667-7040					
	· ·				Fax		416-667-0071				
Emergency Phone #		CHEMTREC			1-800-424-9	9300	CA	NUTEC		1-613-996-66	66
	IDENTIFICA	TION					1				
Symbol Pictogram			$\wedge$		Signal Wo	rd		rning			
		<			Symbol		Flame				
			$\overline{}$								
Hazard Classificatio	n	Flammable Liquid	Category	3							
Health Hazard		Use Care (See Pr			d Statements)		Env	ironmental Hazard	s	Biodegradeal	ole ( OECD 301D)
		•			•						•
		P102: Keep ou	ıt of roach	of children				uss	6: Elammah	le liquid and va	nour
Precautiona	ry				ces. sparks. ope	en flames and	other ic	nition sources. H30			ipoui.
&		P301: IF SWAI	LLOWED:	Drink large q	uantities of water	er or milk.		H31	7: May caus	e an allergic sl	
Hazard Statem	ients	<b>P305</b> : IF IN EY	'ES: Flush	eyes with lar	ge quantities of	water.		H33	6: May caus	e drowsiness	or dizziness.
3. COMPOS	ITION										
Chemical				CAS#		LD-50 (O	al mo	ı/kg) - Rat	Concentra	tion (%)	
Ethanol				64-17-5		7,060 2,00		programat	70.0%		
Chlorhexidine Glucon	ate			18472-51-0	)	7,000 2,00			0.2%		
	MEASURE	S		.5112-01-0					y.= /v		
Inhalation		g is difficult, remove	e individual	to fresh air.		Ingestion		Drink large quar	ntities of milk	or water. Do r	ot induce vomiting.
Skin Contact		e dryness or irritatio			ct.	Eye Cont		Flush with plent			
<b>Most Important Sym</b>											
May cause acute mild											
Indication of any Imi	mediate Med	lical Attention and	Special T	reatment Ne	eded						
Not Applicable. <b>5. FIREFIGH</b>	ITING MEAS	CUDEC									
								15			
Use dry chemical, foa  6. ACCIDEN	TAL RELEA		isperse vap	ours if need	ed. Firefighters	: As with any fi	re, wea	ar self-contained brea	athing appara	atus.	
Use all means to prev		-	onguron or	o noccoon	provided venou	ro are not nor	mittad t	to build up			
	G & STORA		easures ar	e necessary,	, provided vapot	irs are not pen	milled i	lo bulla up.			
Store in a cool, dry, w			v from hea	t snarks and	I flames DO NO	T mix with ble	ach or	neroxides Storage	and Transpor	t: 0°- 30°C	
		LS/ PERSONAL I					4011 01	poloxidos. Otologo		0 00 0	
Respiratory protective	e equipment n	nay be required if va	apours are	not permitte	d to escape. No	other specific	measu	res required.			
Component		ACGIH TLV		08	SHA PEL		NIC	OSH		CCHOS	
Ethanol		STEL: 1000 ppm	1	(Vi	acated) TWA: 1		IDI	H: 3300 ppm		TWA: 1000 p	mac
						mag 000					
		0122. 1000 ppii		(V:	acated) TWA: 1		TV	VA: 1000 ppm		TWA: 1900 i	ng/m3
				(Va			TV	VA: 1000 ppm VA: 1900 mg/m3		TWA: 1900 i	ng/m3
9. PHYSICA	L AND CHE	MICAL PROPERT	ΓIES	(Va			TV	VA: 1900 mg/m3		TWA: 1900 i	
	L AND CHE		ΓIES		acated) TWA: 1	900 mg/m3  Boiling p	TW TW	VA: 1900 mg/m3	Density		Kinematic
Physical State	Colour	MICAL PROPERT		Solidific	acated) TWA: 1	Boiling p	TW TW	VA: 1900 mg/m3  Flash Point ASTM D56	g/ml@ 25°	ос рН	Kinematic Viscosity@ 23°C
Physical State Transparent, Liquid	Colour Green	MICAL PROPERT Odour Lime,Pepper, N		Solidific	acated) TWA: 1	900 mg/m3  Boiling p	TW TW	VA: 1900 mg/m3	Density g/ml@ 25		Kinematic
Physical State Transparent, Liquid 10. STABILIT	Colour Green Y AND REA	MICAL PROPERT  Odour  Lime,Pepper, N	Mango	Solidific	cation point	Boiling p OECD 10 79°C	TW TW Dint 03	VA: 1900 mg/m3  Flash Point ASTM D56 23°C	g/ml@ 25°	ос рН	Kinematic Viscosity@ 23°C
Physical State Transparent, Liquid 10. STABILIT Stable under normal	Green Y AND REA conditions. I	Odour Lime,Pepper, M CTIVITY ncompatibility:Stro	Mango	Solidific	cation point	Boiling p OECD 10 79°C	TW TW Dint 03	VA: 1900 mg/m3  Flash Point ASTM D56	g/ml@ 25°	ос рН	Kinematic Viscosity@ 23°C
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Physical State Transparent, Liquid 10. STABILIT Stable under normal	Colour Green Y AND REA conditions. II OGICAL DA	MICAL PROPERT  Odour  Lime,Pepper, M  CTIVITY  ncompatibility:Stro  TA  >5000 mg/kg	Mango ong oxidan	Solidific	cation point	Boiling p OECD 10 79°C  Decompos	TW TW	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO	g/ml@ 25 .862	PC pH 9.5	Kinematic Viscosity@ 23°C
Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit	Colour Green Y AND REA conditions. II OGICAL DA ty LD50 2 Not fo	MICAL PROPERT  Odour  Lime, Pepper, M  CTIVITY  ncompatibility: Stro.  TA  >5000 mg/kg  und to be dermal se	Mango ong oxidan	Solidific	cation point	Boiling p OECD 11 79°C  Decompos	oint 03	Flash Point ASTM D56 23°C	g/ml@ 25 .862 LD <sub>50</sub> >5	9.5 pH	Kinematic Viscosity@ 23°C
Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit Ocular Irritation	Colour Green Y AND REA conditions. II OGICAL DA ty LD <sub>50</sub> 2 Not fo	MICAL PROPERT  Odour  Lime, Pepper, M  CTIVITY  ncompatibility: Stro.  TA  >5000 mg/kg  bund to be dermal serverity after 7 days	Mango ong oxidant ensitizer	Solidific	cation point 25°C ides, silver salts	Boiling p OECD 10 79°C  Decompos  Acu	TW TW Dint D3 Ditton: F	Flash Point ASTM D56 23°C Products: CO <sub>2</sub> , CO	g/ml@ 25° .862  LD <sub>50</sub> >5 LC <sub>50</sub> : 2.	9.5  000 mg/kg 3 mg/L Rat	Kinematic Viscosity@ 23°C 2.43 mm²/s
Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit	Colour Green Y AND REA conditions. II OGICAL DA ty LD <sub>50</sub> 2 Not fo	MICAL PROPERT  Odour  Lime, Pepper, M  CTIVITY  ncompatibility: Stro.  TA  >5000 mg/kg  und to be dermal se	Mango  ong oxidant  ensitizer  oe harmful.	Solidific	cation point 25°C ides, silver salts	Boiling p OECD 10 79°C  Decompos  Acu Acu Care	TW TW Dint Dint Distribution: F	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO	g/ml@ 25° .862  LD <sub>50</sub> >5 LC <sub>50</sub> : 2.	9.5 pH	Kinematic Viscosity@ 23°C 2.43 mm²/s
Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit Ocular Irritation Reproductive Hazaro	Colour Green Y AND REA conditions. In OGICAL DA ty LD <sub>50</sub> : Not fc 0.0 se ds Ingest	MICAL PROPERT  Odour  Lime,Pepper, M  CTIVITY  ncompatibility:Stro  TA  >5000 mg/kg  bund to be dermal serverity after 7 days tion/inhalation can be	Mango  ong oxidant  ensitizer  oe harmful.	Solidific	cation point 25°C ides, silver salts	Boiling p OECD 10 79°C  Decompos  Acu Acu Care	TW TW Dint Dint Distribution: F	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO	g/ml@ 25° .862  LD <sub>50</sub> >5 LC <sub>50</sub> : 2.	9.5  000 mg/kg 3 mg/L Rat	Kinematic Viscosity@ 23°C 2.43 mm²/s
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Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit Ocular Irritation Reproductive Hazard 12. ECOLOGIC Surfactants are readil	Colour Green Y AND REA conditions. In OGICAL DA by LD <sub>50</sub> : Not fo 0.0 se ds Ingest	Odour Lime,Pepper, N CTIVITY ncompatibility:Stro TA P5000 mg/kg pund to be dermal seperity after 7 days tion/inhalation can be MATION ble in soil and wate	Mango ong oxidant ensitizer oe harmful. Te r. Persister	Solidification -2  Its, acid chlorication (TDLo 300m ats Performe and the control of the control	cation point 25°C ides, silver salts ag/Kg Ethanol) d by Product Sa	Boiling p OECD 10 79°C  Decompos  Acu Acu Caru fety Labs, Day	TW TW Dint Dint Distribution: F	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO  plation Toxicity nicity J USA	LD <sub>50</sub> >5   LC <sub>50</sub> : 2.   Ingestio	9.5  000 mg/kg 3 mg/L Rat n of Ethanol IA	Kinematic Viscosity@ 23°C 2.43 mm²/s
Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOL Acute DermalToxicit Ocular Irritation Reproductive Hazard 12. ECOLOGIC	Colour Green Y AND REA conditions. In OGICAL DA by LD <sub>50</sub> : Not fo 0.0 se ds Ingest	Odour Lime,Pepper, N CTIVITY ncompatibility:Stro TA >5000 mg/kg bund to be dermal severity after 7 days tion/inhalation can be MATION ble in soil and wate EC50 (72h)	Mango  ong oxidant  ensitizer  oe harmful.  Te  r. Persister  = 275 mg/	Solidification -2  Its, acid chlorication (TDLo 300m ats Performe and the control of the control	cation point 25°C ides, silver salts  g/Kg Ethanol) d by Product Sa  pased on availat Fathead r	Boiling p OECD 10 79°C  Decompos  Acu Acu Care fety Labs, Day ole data. ninnow	ition: F	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO  plation Toxicity nicity J USA	g/ml@ 25° .862  LD <sub>50</sub> >5  LC <sub>50</sub> : 2.  Ingestio	9.5  000 mg/kg 3 mg/L Rat n of Ethanol IA	Kinematic Viscosity@ 23°C 2.43 mm²/s  RC Group1.
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Physical State Transparent, Liquid 10. STABILIT Stable under normal 11. TOXICOLO Acute DermalToxicit Ocular Irritation Reproductive Hazard 12. ECOLOGIO Surfactants are readily Ethanol	Colour Green Y AND REA conditions. II OGICAL DA ty LD <sub>50</sub> 2 Not fo 0.0 se ds Ingest  CAL INFOR y biodegrada	MICAL PROPERT Odour Lime,Pepper, M CTIVITY Incompatibility:Stro TA P5000 mg/kg pund to be dermal severity after 7 days stion/inhalation can be MATION ble in soil and wate EC50 (72h) (Chlorella	Mango  ong oxidant  ensitizer  oe harmful.  Te  r. Persister  = 275 mg/	Solidification -2  Its, acid chlorication (TDLo 300m ats Performe and the control of the control	cation point 25°C ides, silver salts  ag/Kg Ethanol) d by Product Sa  cased on availat Fathead r (Pimephales	Boiling p OECD 11 79°C  Decompos  Acu Acu Care fety Labs, Day ble data. ninnow promelas)	ition: F	Flash Point ASTM D56 23°C  Products: CO <sub>2</sub> , CO  plation Toxicity nicity J USA  Photobacteric Phosphoreum:EC50 Mg/L/30 mi Photobacteric	g/ml@ 25° .862  LD <sub>50</sub> >5  LC <sub>50</sub> : 2. Ingestio	9.5  000 mg/kg 3 mg/L Rat n of Ethanol IA	Kinematic Viscosity@ 23°C 2.43 mm²/s RC Group1.
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