

- Disinfects
- Active Transport
- MADE IN FABRIQUÉ AU CANADA







HOSPITAL LEVEL IMMERSION DISINFECTANT

BioMERS is a ready-to-use immersion disinfectant bath ideal to pre-clean and disinfect non-critical and critical devices prior to sterilization. While other immersion baths can take 40 to 90 minutes to reach a tuberculocidal level, BioMERS can achieve this benchmark in just one minute. BioMERS will not corrode devices or damage drains. Orange and mint scented.



DIN 02210711

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 instrument disinfectant kill time across all four pathogen categories



Broad Spectrum Disinfectant

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

SAFER



Non-Corrosive

Will not corrode metals, even when chrome, stainless steel, carbide steel, brass or aluminum instruments are mixed



Non-Toxic

Does not contain Glutaraldehydes nor corrosive peroxides leading to greater protection for both staff and equipment



Safe for Users

Does NOT contain Quats, phenols, peroxides or aldehydes. No PPE necessary. Is safe on skin for disinfecting minor cuts and abrasions.

KINDER



Environmentally Friendly

All products are made with biodegradable, plant-based ingredients



Certified Biodegradable

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



Recyclable Packaging

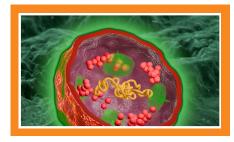
Bag-in-Box packaging flattens for disposal and is made of environmentally friendly materials



HOSPITAL LEVEL

IMMERSION DISINFECTANT

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.

ABSORBTION



Plastic items such as splints, dentures, x-ray holders or cheek retractors, when soaked absorb 2–8% by weight of the disinfectant. Mucosal or skin irritation such as dermatitis and stomatitis can be caused by absorption of aldehydes, chlorines or phenols. Using BioMERSTM (plant-based formulation) **eliminates** this

VERSATILE



BioMERSTM can be used for disinfecting jewelry, dentures, mouth-guards and splints. To ensure that the solution contains the appropriate amount of active ingredient (ethanol), use a hydrometer daily. The reading should be .867 (+-.02 at 20°).

HOW TO USE





Use full strength. Carefully dispense BioMERS™ from the EcoPACK™ spigot into an instrument bath or covered container. Use just enough to cover instruments. Keep bath covered to prevent evaporation.





Immerse objects (glass, metal, or plastic) and instruments (mixed metals) for a minimum of 1 minute. For plastics, silicone, and acrylic a maximum of 10 minutes immersion is recommended.





Stainless steel instruments can be left for up to 5 days in a closed bath or container. Avoid overnight soaking of rubber, noncrosslinked plastics or painted items.





BioMERS™ may be used chairside/bedside as a presoak for instruments to reduce risk prior to transporting them to sterilization area.

BioMERS™ may also be used on heavily soiled devices or devices which have been contaminated with inks or oils to clean them prior to sterilization.





Once disinfected, rinse with distilled or deionized water and dry. Then place in an enzymatic detergent bath (Micrylium BioSON™) for 10 minutes before sterilization. Using BioMERS™ before sterilization can reduce the risk of cross contamination.





The solution should be replaced when dirty, or when the level has reduced by more then 5% or every ten to fourteen days. This can also be monitored by a hydrometer (glass specific gravity instrument) as BioMERS™ has a relative density of .866 when compared with water at 1. The effective range is .860 to .890 SG. Best practice is Class B sterilization.

PRODUCT SPECIFICATION DATA

Item Number	Product Description	Packaging
02-MERS-001	BioMERS 1L Bag-in-Box RTU	1 Box
02-MERS-005	BioMERS 5L Bag-in-Box RTU	1 Box

CUSTOMER REVIEWS

"We've been using BioMERS for over 10-years as an instrument pre-soak. It does not damage the protective coating on our instruments and has saved us thousands of dollars from having to replace instruments too quickly."

Donna F., West Park Spa, Alberta













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.

EFFECTIVENESS



BioMERS™ disinfects effectively in **heavy blood/saliva** and protein environments. Halogens (Cl, Br, I), Quaternary Ammoniums and Peroxides are ineffective against human blood proteins which limit their ability to effectively destroy pathogens.

PRECAUTIONS



Use full strength. Do not dilute. Ready-to-use formulation. Do not use on surfaces that undergo rapid temperature changes. Avoid concurrent use with bleach. Not for use on acrylic latex, painted surfaces or vinyl upholstery. Avoid longer than 10-minutes contact time with rubber or silicone materials. Use with care as product is flammable.

CONTACT TIME

Pathogen Type	Strain	Effective Contact Time
Bacteria	Salmonella choleraesuis (ATCC 10708)	10 seconds
Bacteria	Staphylococcus aureus (ATCC 6538)	10 seconds
Bacteria	Pseudomonas aeruginosa (ATCC 15442)	10 seconds
Bacteria	Bacillus subtilis (Sporicidal activity)(ATCC 19659)	2 hours
Bacteria	Bacillus subtilis (ATCC 6633)	2 hours
Bacteria	Bacillis sterothermophilis (Sporicidal activity) (ATCC 7953)	2 hours
Bacteria	Geobacillus stearothermophilus (ATCC 12980)	2 hours
Bacteria	Escherichia coli (NCTC 10541)	20 seconds
Fungi	Trichophyton menghini ATCC 12106	20 seconds
Fungi	Trichophyton mentagrophytes (ATCC 9533)	10 seconds
Mycobacterium	Mycobacterium smegmatis (*Tuberculocidal activity) (PN 1034)	60 seconds
Mycobacterium	Mycobacterium bovis BCG (5% soil/bioburden)	60 seconds
Mycobacterium	Mycobacterium terrae (ATTC 15755) (5% soil)	60 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























1. IDENTIFIC	CATION									
Product Name		BioMERS		Manu	acturer	Mic	rylium Laboratories	s Inc.		
Registration		CAN DIN	02210711							
		US FDA	D142278				5000M Dufferin Street, Toronto, Canada,			
			222.0				H 5T5			
							w.micrylium.com			
Indication		Immersion disir	nfectant / cleaner	Phone	Phone		416-667-7040			
		IIIIII GIGIOII GIGII	mineralen diameetant / cicaner			416	416-667-0071			
Emergency Phone #		CHEMTREC		1-800	424-9300		NUTEC	1-6	13-996-66	66
2. HAZARD	IDENTIFICA	ATION								
Symbol Pictogram			^	Signa	l Word		rning			
			.1	Symt	Symbol		Flame			
		•								
Hazard Classification	1	Flammable Liqu				T =				
Health Hazard		Use Care (See	Precautionary and	d Hazard Stateme	nts)	Env	/ironmental Hazar	rds Bio	<u>degradeab</u>	le (OECD 301D)
.		P102: Koop ou	ut of reach of childr	on				H226: Flammab	le liquid an	d vapour.
Precautiona	ary		way from heat, hot		open flames a	nd other	ignition sources	H302: Harmful i		
			LLOWED: Drink la			ia ouioi	igilition courses.			ic skin reaction.
Hazard Staten	nents		/ES: Flush eyes wi					H336: May caus	se drowsine	ess or dizziness.
	TION						'			,
3. COMPOS	IIION			1 ::	1				444	
Chemical				CAS#		Oral, m	g/kg) - Rat	Concentration	(%)	
Ethanol				64-17-5	7,060			70.0%		
Chlorhexidine Glucona				18472-51-0	2,000			0.2%		
4. FIRST AID	MEASURE									
Inhalation		g is difficult, remove			Ingesti				water. Do n	ot induce vomiting.
Skin Contact		e dryness or irritation		contact.	Eye Co	ntact	Flush with plent	ty of water.		
Most Important Sym										
May cause acute mild										
Indication of any Imr	nediate Med	ical Attention and	Special Treatme	nt Needed						
Not Applicable.	TIME 11	NIDEC.								
	TING MEAS									
Use dry chemical, foar			isperse vapours if	needed. Firefight	ers : As with ar	y fire, we	ear self-contained	breathing appara	tus.	
6. ACCIDEN	TAL RELEA	SE								
Use all means to prev			neasures are neces	ssary, provided va	pours are not	permitted	d to build up.			
	& STORA									
Store in a cool, dry, we	ell-ventilated	location. Keep awa	ay from heat, spark	s and flames DC	NOT mix with	bleach o	or nerovides Stora	ne and Transnor	t: 0°- 30°C	
8. EXPOSUR	E CONTRO			to arra marmoo. B c		DICUOIT	oi peroxides. Otora	ge and Transpor		
5. EXT 0001	E CONTRO	LS/ PERSONAL	PROTECTION	to and names. De		Dicaoire	or peroxides. Otora	ge and Transpor		
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Effective Date: 2025/10/31 Document: MERS 2.0