

# **Got A Minute?**

CA DIN 02210711 / FDA D142278

## **Immersion Disinfectant**

Contact Time < 1 Minute (less than)

Intermediate Level — Tuberculocidal, Bactericidal, Virucidal & Fungicidal in the presence of Bioburden

Colour: Orange | Scent: Orange, Peppermint, Eucalyptus

## **Available Sizes:**

1 L EcoPACK (02-MERS-001)

5 L EcoPACK (02-MERS-005)

#### **Purpose:**

BioMERS™ provides fast effective disinfection in the presence of bioburden, while minimizing the impact on the Environment, People and Equipment.

#### Suitable for

Aseptic transport and immersion of medical devices and instruments. As per IPAC best practices, BioMERS™ provides protection from adhesion of bioburden. Bacteriostatic when diluted in solution like pumice.

## **Applied Asepsis Concepts:**

Micrylium has a product development strategy based on what we call "Chair Theory". The four legs of a chair give it balance. Most products do not have this balance. They may be one minute kill on TB, but 15 minutes on Polio. The chair legs concepts in Microbiology are Mycobacteria, non-enveloped viruses, fungal spores and gram negative bacteria. Our kill times are measured as the longest time to cover all benchmarks. BioMERS™ disinfects effectively in heavy blood/saliva and protein environments. Halogens (CI, Br, I), Quaternary Ammoniums and Peroxides are reactive with proteins limiting their ability to perform in many clinical settings.

## **Quality Commitment:**

Our vision of asepsis holistically links the patient/client safety with the safety of professional staff. Our chemistry is based on antiseptics of pharma grade (USP EP BP NF) origin. Quality Ingredients include biodegradable surfactants (many of which are plant based), USP grain derived absolute Ethanol and naturally derived scents. OECD 301D Tests conclude biodegradability (28 days). Our EcoPACK™ concept delivers fresh product (no Oxidation) and is fully recyclable. (EVOH bag/Recycled Corrugated Box)

#### **Instructions for Use:**

- 1) Carefully dispense BioMERS™ from the EcoPAK™ spigot into an instrument bath or covered container. Keep bath covered to prevent evaporation.
- 2) 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.
- 3) BioMERS™ may be used chairside/bedside as a pre-soak for instruments to reduce risk prior to transporting them to the sterilization area.
- 4) 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.

  Using BioMERS™ before sterilization can reduce the risk of cross contamination. Rinse with distilled or deionized water and dry before sterilization.
- 5) BioMERS™ can be used for disinfecting jewelery, dentures, hearing aids, mouth-quards and splints.

# Caution: Use with care as the product is Flammable



## **Precautions:**

USE FULL STRENGTH — Do Not Dilute. RTU (Ready To Use Formulation)

Do not use on surfaces that undergo rapid temperature changes.

AVOID CONCURRENT USE WITH BLEACH - Staining (yellow/brown) can occur. On some surfaces, including uniforms, this can be removed by soaking with Borax (Sodium Borate). CAUTION - NOT FOR USE on acrylic latex painted surfaces or vinyl upholstery.

Avoid longer than 10 minutes contact time with rubber or silicone materials.

## **Helpful Tips:**

Steam sterilization with regular validation and maintenance are the correct treatment for Medical Devices and Instruments requiring sterilization.

Best practice is Class B vacuum sterilization. Always rinse devices/tools and dry prior to placing in BioMERS ™ to prevent dilution. Prior to sterilization, rinse and dry instruments. To ensure that the solution contains the appropriate amount of active ingredient (ethanol) use a Hydrometer. The reading should be .867 (+ - .02 at 20°)

See our website for specific details: www.micrylium.com/products













16. OTHER INFORMATION

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Packard Description   Principle   Princi	Indication		Immersion disinfectant / cleaner			Phone							
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Page 1 is ANALLOWED. Drink sings quantities of water or milk.  ### Hazard Statements  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of water or milk.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish yea, with large quantities of milk or water.  ### 1995   F REYES   Fish year   Fish ye											/apour.		
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CAS # LD-90 (Oral, mg/kg) - Rat													
Chemical  CAS # LD-59 (Oral, mg/kg) - Rat	Hazard Statem	ents	P305: IF IN EYES:	Flush eyes with larg	ge quantities of v	vater.			H336: Ma	v cause drowsiness	or aizziness.		
Chemical  CAS # LD-59 (Oral, mg/kg) - Rat	3 COMPOSI	TION											
Ethanol					CAS#		I D-50 (Or	ral mo/	ka) - Rat	Concentration	n (%)		
The Processing of National Control of Processing is difficult, remove individual to fresh air.   Ingestion   Drink large quantities of milk or water. Do not induce vomiting.								ui, mg/	ng/ - Nut		( /0)		
First AID MEASURES   May cause dryness or ritation with prolonged contact.   Eye Contact   Flush with plenty of water.   Do not induce wornling.		nto				0							
Inhalation   If breathing is difficult, remove individual to fresh air.   Inquestion   Drink large quantities of misk or water. Do not induce vomiting. Skin Contact   May cause and erhopes or irritation with prolonged contact.   Eye Contact   Flush with plenty of water.    Most Important Symptoms and Effects (Acute and Delayed)    May cause acute mild drowsiness, respiratory androt yee irritation.    Indication of any Immediate Medical Attention and Special Treatment Needed    Not Applicable:   S.   FIREFIGHTING MEASURES    Se dry chemical , Som, or CO, Use water spray to disperse vapours if needed. Fireflighters: As with any fire, wear self-contained breathing apparatus.    Some air means to prevent replicable, Now. Provided vapours are not permitted to build up.    Store in a cool dry, well-verifized location. Keep away from heat, sparks and flames. DO NOT mix with bleach or peroxides. Storage and Transport. 0°-30°C    8. EXPOSURE CONTROLS PERSONAL PROTECTION    Respiratory protective equipment may be required if vapours are not permitted to escage. No other specific measures required.    Component   STEL: 1000 ppm   (Vacated) TWA: 1000 ppm   (Vacated) TWA: 1000 ppm   TWA: 100			c		10472-31	-0	2,000			0.2%			
May cause dryness or irritation with prolonged contact.   Eye Contact   Flush with plenty of water.				in dividual to force	le ele		l la a a a di a a		Dairely Investories	-4141 £111			
Most purchant Symptoms and Effects (Acute and Delayed) May cause acute mild drownienses, respiratory and/or eye irritation. Indication of any immediate Medical Attention and Special Treatment Needed Not Applicable.  5. FIREFIGHTING MEASURES  8. dry Chemical, foam, or City. Use water spray to disperse vapours if needed. Firefighters: As with any fire, wear self-contained breathing apparatus.  6. ACCIDENTAL RELEASE  1. Be all means to prevent spillage, No other specific measures are necessary, provided vapours are not permitted to build up.  7. HANDLING & STORAGE  Store in a cool, dry, well-ventilated location. Keep away from heat, sparks and flames, DO NOT mix with bleach or peroxides. Storage and Transport: 0°-30°C  8. EXPOSURE CONTROLS/ PERSONAL PROTECTION  Respiratory protective equipment may be required if vapours are not permitted to escape. No other specific measures required.  Component  8. EXPOSURE CONTROLS/ PERSONAL PROTECTION  Component  9. PHYSICAL AND CHEMICAL PROPERTIES  Physical State  1. Control of the provided provided in the provided provided in the provided p											water. Do	not induce vorniting.	
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Indication of any immediate Medical Attention and Special Treatment Needed  Not Applicable.  5. FIREFIGHTING MEASURES  1. Be dry chemical, floam, or Cip. Use water spray to disperse vapours if needed. Fireflighters: As with any fire, wear self-contained breathing apparatus.  6. ACCIDENTAL RELEASE  1. Be all means to prevent spillage, bo other specific measures are necessary, provided vapours are not permitted to build up.  7. HANDLING & STORAGE  Store in a cool, fiv, well-ventilated location. Keep away from heat, sparks and flames. DO NOT mix with bleach or peroxides. Storage and Transport: 0°-30°C  8. EXPOSURE CONTROLS/ PERSONAL PROTECTION  Respiratory protective equipment may be required if vapours are not permitted to escape. No other specific measures required.  Component  ACGIH TLV  OSHA PEL  (Vacated) TWA: 1000 ppm  (Vacated) TWA: 1000 ppm  (Vacated) TWA: 1000 ppm  TWA: 1000 ppm  TWA: 1000 ppm  TWA: 1900 mg/m³  TWA: 1900 mg/m³  TWA: 1900 mg/m³  TWA: 1900 mg/m³  1. Wa: 1900 mg/m³													
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9. PHYSICAL AND CHEMICAL PROPERTIES  Physical State Colour Odour Solidification point OECD 103 ASTM D56 g/ml@ 25°C Physical State Colour Orange Peppermint, Eucalyptus -25°C 81°C 23°C .864° 9.5 2.24 mm²/s  Tansparent, Liquid Orange Orange, Peppermint, Eucalyptus -25°C 81°C 23°C .864° 9.5 2.24 mm²/s  10. STABILITY AND REACTIVITY  Stable under normal conditions. Incompatibility: Strong oxidants, acid chlorides, silver salts Decomposition: Products: CO <sub>2</sub> , CO  11. TOXICOLOGICAL DATA  Acute Dermal Toxicity													
9. PHYSICAL AND CHEMICAL PROPERTIES  Physical State Colour Odour point OECD 103 Flash Point grining 25°C Physical State Colour OF Physical State Colour OECD 103 Point OECD 103 Plant ASTM D56 Plant Viscosity@ 23°C Plant V	Ethanol		STEL: 1000 ppm										
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Transparent, Liquid Orange Orange, Peppermint, Eucalyptus 2-25°C 81°C 23°C 8.64 9.5 2.24 mm²/s  10. STABILITY AND REACTIVITY  Stable under normal conditions. Incompatibility: Strong oxidants, acid chlorides, silver salts Decomposition: Products: CO2, CO  11. TOXICOLOGICAL DATA  Acute Dermal Toxicity IDsg >5000 mg/kg Not found to be dermal sensitizer  Ocular Irritation 0.0 severity after 7 days  Reproductive Hazards  Tests Performed by Product Safety Labs, Dayton, NJ USA  12. ECOLOGICAL INFORMATION  Surfactants are readily biodegradable in soil and water. Persistence unlikely based on available data.  Ethanol ECS (72h) = 275 mg/L (Chlorella vulgaris)					Caliditia	ation	Dailing no	ina	Floor Doint	Danaitu	- LI	Vin ametic	
Transparent, Liquid Orange Orange, Peppermint, Eucalyptus -25°C 81°C 23°C 864 9.5 2.24 mm³/s  10. STABILITY AND REACTIVITY  Stable under normal conditions. Incompatibility: Strong oxidants, acid chlorides, silver salts Decomposition: Products: CO2, CO  11. TOXICOLOGICAL DATA  Acute Dermal Toxicity	Physical State	Colour	Odd	our							рн	Vicesity® 22°C	
11. TOXICOLOGICAL DATA  Acute Dermal Toxicity    LD <sub>50</sub> > 5000 mg/kg   Not found to be dermal sensitizer   Coular Irritation   0.0 severity after 7 days   Acute Inhalation Toxicity   Ingestion of Ethanol IARC Group1.    Tests Performed by Product Safety Labs, Dayton, NJ USA    12. ECOLOGICAL INFORMATION   ECSO (72h) = 275 mg/L (Chlorella vulgaris)   Fathead minnow (Pimephales promelas)   LC50 = 14200 Mg/L/96h   Mg/L/30 min Photobacterium Phosphoreum:EC50 = 34634   Mg/L/30 min Photobacterium Phosphoreum:EC50 = 35470   Mg/L/3 min Photobacterium Phosphoreum:E	Transparent Liquid	Orango	Orango Poppor	nint Eucalyntus				,3			0.5		
Stable under normal conditions   Incompatibility: Strong oxidants, acid chlorides, silver salts   Decomposition: Products: CO₂, CO			Orange, Peppen	IIIII, Eucalyptus	-25 (	٠	81.0		23 C	.004	9.5	2.24 111117/5	
Acute Dermal Toxicity  Acute Dermal Toxicity  LD <sub>50</sub> >5000 mg/kg Not found to be dermal sensitizer  Ocular Irritation  O. 0. severily after 7 days  Reproductive Hazards  Ingestion/inhalation can be harmful. (TDLo 300mg/Kg Ethanol)  Tests Performed by Product Safety Labs, Dayton, NJ USA  12. ECOLOGICAL INFORMATION  Surfactants are readily biodegradable in soil and water. Persistence unlikely based on available data.  Ethanol  EC50 (72h) = 275 mg/L (Chlorella vulgaris)  (Chlorella vulgaris)  (Chlorella vulgaris)  13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land  Hazard Class 3  UN 1170 Packaging Group III  Limited Quantity 5L	10. STABILIT	Y AND REA	CTIVITY										
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Not found to be dermal sensitizer  Ocular Irritation  O. D. severity after 7 days  Ingestion/inhalation can be harmful. (TDLo 300 mg/Kg Ethanol)  Tests Performed by Product Safety Labs, Dayton, NJ USA  12. ECOLOGICAL INFORMATION  Surfactants are readily blodegradable in soli and water. Persistence unlikely based on available data.  Ethanol  Ethanol  Chlorella vulgaris)  Chlorella vulgaris)  Domestic. Dilute 4:1 with water. This product is flammable.  13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land  Hazard Class 3  UN 1170 Packaging Group III  Limited Quantity 5L  Limited Quantity 5L  Limited Quantity 1L							Acute	e Oral		LD >5000	0 ma/ka		
Coular Irritation   0.0 severity after 7 days   Acute Inhalation Toxicity   LC <sub>SD</sub> : 2.3 mg/L Rat   Ingestion of Ethanol IARC Group1.  Tests Performed by Product Safety Labs, Dayton, NJ USA    12.   ECOLOGICAL   NFORMATION	Acate Berniai Texion			ensitizer			71001	o o.u.		пр 50 г обо	o mg/kg		
Tests Performed by Product Safety Labs, Dayton, NJ USA								e Inhala	ation Toxicity	LC==: 2.3 m	LC <sub>ro</sub> : 2.3 mg/L Rat		
Tests Performed by Product Safety Labs, Dayton, NJ USA  12. ECOLOGICAL INFORMATION  Surfactants are readily biodegradable in soil and water. Persistence unlikely based on available data.  Ethanol  ECS0 (72h) = 275 mg/L (Chlorella vulgaris)  (Chlorella vulgaris)  (Chlorella vulgaris)  ECS0 = 14200 Mg/L/96h  Phosphoreum:EC50 = 34634 Mg/L/30 min Phosphoreum:EC50 = 34634 Mg/L/30 min Phosphoreum:EC50 = 34670 Mg/L/5 min  13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Sea  Air (IATA) Hazard Class 3 UN 1170 Packaging Group III UN 1170 Packaging Group III Limited Quantity 5L Limited Quantity 5L Limited Quantity 1L  Limited Quantity 1L  Limited Quantity 1L				e harmful (TDI o	300mg/Kg F	thanol)						ARC Group1	
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(Chlorella vulgaris)  (Pimephales promelas) LC50 = 14200 Mg/L/96h  Phosphoreum:EC50 = 34634 Mg/L/30 min Photobacterium Phosphoreum:EC50 = 35470 Mg/L/5 min  13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land Sea Air (IATA)  Hazard Class 3 Hazard Class 3 UN 1170 Packaging Group III UN 1170 Packaging Group III  Limited Quantity 5L  Limited Quantity 5L  Limited Quantity 1L		biodegradab							Photobacto	rium	ECS	0 - 0268 mg/l /48h	
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Photobacterium Phosphoreum:EC50 = 35470 Mg/L/5 min  13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land Sea Air (IATA)  Hazard Class 3 Hazard Class 3  UN 1170 Packaging Group III UN 1170 Packaging Group III UN 1170 Packaging Group III  Limited Quantity 5L Limited Quantity 5L Limited Quantity 1L  15. REGULATORY INFORMATION			(e.merena raigane)					'			2000 10000 mg/2/2 m		
13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land Sea Air (IATA)  Hazard Class 3 Hazard Class 3  UN 1170 Packaging Group III UN 1170 Packaging Group III UN 1170 Packaging Group III  Limited Quantity 5L Limited Quantity 1L  15. REGULATORY INFORMATION									Photobacterium				
13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127  Land Sea Air (IATA)  Hazard Class 3 Hazard Class 3  UN 1170 Packaging Group III UN 1170 Packaging Group III UN 1170 Packaging Group III  Limited Quantity 5L Limited Quantity 5L Limited Quantity 1L  15. REGULATORY INFORMATION									Phosphoreum:EC50 = 35470				
13. DISPOSAL CONSIDERATIONS  Domestic. Dilute 4:1 with water. This product is flammable.  14. TRANSPORT INFORMATION  Emergency Response Guide #127    Land   Sea   Air (IATA)     Hazard Class 3   Hazard Class 3     UN 1170 Packaging Group III   UN 1170 Packaging Group III     Limited Quantity 5L   Limited Quantity 5L   Limited Quantity 1L     15. REGULATORY INFORMATION									Mg/L/5 min				
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Emergency Response Guide #127    Land   Sea   Air (IATA)     Hazard Class 3   Hazard Class 3     UN 1170 Packaging Group III   UN 1170 Packaging Group III     Limited Quantity 5L   Limited Quantity 5L   Limited Quantity 1L     15. REGULATORY INFORMATION				ible.									
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TSCA – No reporting required. CERCLA – No hazardous pollutants or ozone depletion.			RMATION										
	TSCA – No reporting r	equired.					CERC	CLA – N	o hazardous polli	utants or ozone	depletion.		

The information and recommendations contained herein are based on information believed to be correct.

It is offered in good faith, without guarantee. Micrylium Laboratories Inc. make no warranty expressed or implied.

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