Micrylium PROFESSIONAL DISINFECTION SDS

Emergency CANUTEC 613-996-6666 / CHEMTREC 800-424-9300

Effective Date July 01, 2014

Document/Revision SDS MERS 1.3

1 Identification BioMERS **Indication** Liquid Immersion Disinfectant

Manufacturer Micrylium Laboratories Inc. 5000M Dufferin Street, Toronto, Canada M3H 5T5
Contact: 800-489-8868 www.micrylium.com

2 Hazard Identification

Heath Hazard Identification No serious Health Hazards

Physical Hazard Identification Flammable

Environmental Hazard Identification Biodegradable, No Endocrine Disruptors

Hazardous Component	CAS#	UN#	R Phrases	Concentration	TLV
Perfumery Product with Flamable Solvents	na - Blend	1266	R 11	70.5%	>1000 ppm

3 Composition Chemical Characterization Ethanol, Chlorhexidine Gluconate, Water with Non-Ionic Surfactants, Anti-Corrosives, Essential Oils

4 First Aid Measures

General Rinse with water

Inhalation Mild reversible irritation. May cause dizziness

Ingestion Drink quantities of milk or water to dilute

Skin contact No adverse effects. Slightly drying

Eye contact Mild reversible irritation. Flush with plenty of water

5 Fire Fighting Measures

Use dry chemical, Alcohol Foam or CO_2. Use water spray to disperse vapours and cool items

6 Accidental Release Measures

No 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 flame.
DO NOT mix with Bleach or Peroxides. Storage & Transport 5º - 30º C

8 Exposure Controls-Personal Protection

No specific measures required. Personal Protective Equipment not required.

9 Physical & Chemical Properties

Form	Colour	Scent	Solidification point	Boiling point	Flash Point	Density	pH	Kinematic Viscosity mm^2/s
Liquid	Orange	Orange	-20ºC	87ºC	17ºC	.866	9.9	18

10 Stability & Reactivity

Stable under normal conditions.

Incompatability Strong oxidants, acid chlorides, silver salts **Decomposition products** CO_2 CO

11 Toxicological Data

BioSURF/MERS: Acute Dermal LD_{50} >5000 mg/kg; Acute Inhalation rat LC_{50}: 2.3 mg/L; Not found to be a dermal sensitizer: Acute Oral LD_{50} >5000 mg/kg; Occular Irritation 0.0 after 7 Days. Tests performed by Product Satety Labs, Dayton, NJ
Grain derived Ethanol USP - All Ingredients Food or Pharma Grade - Free of Nonyl Phenyl Ethoxylates

Reproductive Hazards Ingestion of large amounts can lead to liver damage **Carcinogenicity** None

12 Ecological Information

Surfactants are readily biodegradable linear ethanol ethoxylates. All ingredients USP Pharma or Food Grade

Soil Readily biodegrades **Water** Readily biodegrades **Air** Volitile **Disposal** Domestic

13 Disposal condiderations Domestic, No restrictions. Water Dilution 4:1 for flammability considerations

14 Transport Information

Land	Sea	IATA
Hazard Class 3 UN1266 Packing Group II **Limited Qty 5L max** Emergency Response Guide # 127	Hazard Class 3.2 UN1266 Packing Group II **Limited Qty 5L max** Emergency Response Guide # 127	Hazard Class 3 **UN1266** Packing Group II **Limited Qty 500 mL** Emergency Response Guide # 127

15 Regulatory

TSCA -No reporting required all ingredients are listed in inventory. R11: Highly flammable. S9: Keep container in well-ventilated place. S16: Keep away from sources of ignition - No smoking. CERCLA - No hazardous pollutants - No Ozone depletion

16 Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to information and recommendations contained herein.

Instruments

Description

A ready to use, Orange scented Hospital Level Disinfectant for Instrument Immersion in Professional Settings

Test Results

2 hours

Bacillus subtilis *ATCC 6633*
Geobacillus stearothermophilus *ATCC 12980*
Not presently registered as a High Level Disinfectant

60 seconds

Mycobacterium terrae ATTC 15755 (5% soil)

20 seconds (10% soil/bioburden)

Pseudomonas aeruginosa ATCC 15442
***Salmonella enterica* (*choleraesuis*)** ATCC 10708
Staphylococcus aureus ATCC 6538
Escherichia coli NCTC 10541
Trichophyton mentagrophytes ATCC 9533
Trichophyton menghini ATCC 12106

Features	Benefits
USP/Food Grade Ingredients	**BioMERS** contains Natural source biodegradable surfactants and USP grain-derived absolute Ethanol. **BioMERS** does NOT contain Quats, phenols or aldehydes. Does NOT contain recently noted hormone disrupting surfactants based on Nonyl-phenyl Ethoxylates.
Kind	Gloves/Mask are NOT necessary as **BioMERS** is kind to skin. No irritating vapours like aldehydes or chlorines.
Rapid	**BioMERS** reaches TB level disinfection in one minute. Compare with 20 to 90 minutes for glutaraldehyde and peroxide.
Non-Corrosive Non-Staining	Will not corrode metals, even when chrome, stainless steel, carbide steel, brass or aluminum instruments are mixed.
Client Friendly	Plastic items such as hearing aids, splints, dentures, x-ray holders or cheek retractors, when soaked absorb 2 - 8% by weight of the disinfectant. Mucosal or skin irritation caused by absorption of aldehydes, chlorines or phenols is eliminated with **BioMERS.**

Availability 60 mL Travel Sprayer/Pump (case of 10) • 500 mL Refill Pouch (case of 10) • 5 L Bulk Bag-in-Box (single or case of 4)

Protocol

Pour **BioMERS** into bath.
Keep bath covered to prevent evaporation.

Immerse objects (Glass, Metal or Plastic) and instruments (mixed metals) for a minimum of one minute and maximum 10 minutes.

BioMERS is ideal for disinfecting jewelery, dentures, hearing aids, mouthguards and splints.
Irritation from most immersion disinfectants is well known to cause several types of dermatitis and stomatitis.

Helpful Tips

USE FULL STRENGTH
Never dilute.

BioMERS may be used as a chairside/bedside pre-soak for instruments to reduce risk prior to transporting them to the sterilization area.

Avoid overnight soaking of rubber, non-crosslinked plastics or painted items.

BioMERS is safe on skin for disinfecting minor cuts and abrasions.

Frequently Asked Questions

Should **BioMERS** be covered?

Yes, otherwise it will evaporate, thus reducing its ability to kill microorganisms as ethanol is an essential active ingredient.

How long is **BioMERS** good for?

The solution should be replaced when dirty, or when the level has reduced by more than 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.

Effective Date 14/07/01
Document: MERS PF 001.03

Micrylium
PROFESSIONAL DISINFECTION

Kinder • Safer • Faster
www.micrylium.com
416-667-7040