



SDS

Emergency

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

Effective Date July 01, 2014

Document/Revision SDS SURF1.3

1 Identification **BioSURF** Indication Liquid Spray/Wipe Disinfectant
Manufacturer Micrylium Laboratories Inc. 5000M Dufferin Street, Toronto, Canada M3H 5T5
 Contact: 800-489-8868 www.micrylium.com

2 Hazard Identification	Health Hazard Identification	Physical Hazard Identification			Environmental Hazard Identification	
	No serious Health Hazards	Flammable			Biodegradable, No Endocrine Disruptors	
Hazardous Component	CAS#	UN#	R Phrases	Concentration	TLV	
Perfumery Product with Flammable 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, Foam or CO₂. 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 5° - 30° C

8 Exposure Controls-Personal Protection
 No specific measures required. Personal Protective Equipment not required.

9 Physical & Chemical Properties								Kinematic Viscosity
Form	Colour	Scent	Solidification point	Boiling point	Flash Point	Density	pH	mm ² /s
Liquid	Green	Lime	-20°C	87°C	17°C	.866	9.9	16

10 Stability & Reactivity
 Stable under normal conditions.
Incompatibility Strong oxidants, acid chlorides, silver salts **Decomposition products** CO₂ CO

11 Toxicological Data
 BioSURF: Acute Dermal LD₅₀ >5000 mg/kg; Acute Inhalation rat LC₅₀: 2.3 mg/L; Not found to be a dermal sensitizer:
 Acute Oral LD₅₀ >5000 mg/kg; Occular Irritation 0.0 after 7 Days. Tests performed by Product Safety 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 be dangerous **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** Volatile **Disposal** Domestic

13 Disposal considerations 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 5 L max Emergency Response Guide # 127	Hazard Class 3.2 UN1266 Packing Group II Limited Qty 5 L 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 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.

Surfaces



Test Results

EPA Registration as ONE STEP

50 seconds

- Mycobacterium bovis** BCG (5% soil/bioburden) EPA
- Mycobacterium terrae** ATCC 15755 (4.6% soil) EPA
- Canine Parvovirus** CPV-265 (5% soil) EPA
- Hepatitis B Virus**(HBV) EPA Duckling Test (100% blood)
- Enterococcus hirae** ATCC 10541 (6.2% soil) VAH
- Proteus mirabilis** ATCC 14153 (6.2% soil) VAH
- Candida albicans** ATCC 10231 (6.2% soil) VAH

20 seconds

- Human Immunodeficiency Virus** Type1 HTLV-111EPA
- Pseudomonas aeruginosa** ATCC 15442 (10% soil)
- Salmonella enterica** (*choleraesuis*) ATCC10708 EPA
- Staphylococcus aureus** ATCC 6538 (10% soil) EPA
- Escherichia coli** NCTC 10541 (6.2% soil) VAH
- Trichophyton mentagrophytes** ATCC 9533(10% soil) EPA
- Trichophyton menghini** ATCC 12106 (10% soil) EPA

Description

A ready to use, Lime scented Hospital Level Disinfectant for Hard Surfaces in Professional Settings

Features

USP/Food Grade Ingredients

Bioload Resistant

Economical

Non-Corrosive Non-Staining

Time Saving

Staff Friendly

Benefits

Contains NO Quats, phenols or aldehydes. Does not contain recently noted hormone disrupting surfactants based on Nonyl-phenyl Ethoxylates. Contains Natural source biodegradable surfactants and USP grain derived absolute Ethanol.

BioSURF disinfects well in heavy blood and protein environments. Effective against mature pellicle colonies (**Biofilm**) of *Pseudomonas sp.* ¹-Study available upon request

The Spray - Wipe technique with **BioSURF** uses 50% less product than Spray - Wipe - Spray method.

Will not corrode metals, stain or stick as do water-based Chlorine, Chlorhexidine or Iodine products.

One minute disinfection means each client turnaround with **BioSURF** saves up to 9 minutes vs. other products.

Protects staff from aerosols generated by spraying toxic chemicals. Gloves and Mask are not necessary as **BioSURF** is kind to skin.

Availability 60 mL Travel Sprayer (case of 10) • 500 mL Refill Pouch (case of 10) • 710 mL Spray Bottle (case of 4) • 5 L Bulk Bag-in-Box

Protocol

Remove trigger from **BioSURF** Spray Bottle and pour **BioSURF** using a clean funnel into the bottle from 500mL refill pouch or 5 litre Bag-in-Box spigot. Replace trigger and rinse funnel.

Spray **BioSURF** lightly as a mist over surfaces to be disinfected. Wait one minute then wipe thoroughly with disposable paper towels. Micrylium has two specialty wipes for ethanol disinfectants - LeCLOTH - 7"x 9" tough non-woven wipe and LeCLOTH Grandé a 10" x 11.75" crêpe-textured wipe for irregular surfaces.

Helpful Tips

USE FULL STRENGTH - Never dilute.

AVOID CONCURRENT USE WITH BLEACH as staining (yellow/brown) can occur. On white uniforms this can be removed by soaking in Borax™

ALWAYS WIPE - **BioSURF** contains detergents that may be slippery or build up.

CAUTION - NOT FOR USE on acrylic latex painted surfaces or vinyl upholstery. Avoid longer than 10 minutes contact time with rubber or latex materials.

Frequently Asked Questions

Why ONE STEP?

Precleaning only spreads bacterial contamination. **BioSURF** contains special surfactant/detergents that clean and penetrate microbial contamination. If your protocol insists on two step cleaning & 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.

Why do **BioSURF** triggers sometimes fail? Occasionally, due to rapid temperature change or improper storage, micro-colloids may build up in the reusable trigger mechanism and need to be cleared with hot water flushing.

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Micrylium

PROFESSIONAL DISINFECTION

Kinder • Safer • Faster

www.micrylium.com

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