

# BioSURF™ SDS

1. IDENTIFICATION												
Product Name <b>Registration</b>	BioSURF™		Manufacturer <b>Address</b>	Micrylium Laboratories Inc. 5000M Dufferin Street, Toronto, Canada, M3H 5T5 www.micrylium.com								
	CAN DIN	02209756		416-667-7040								
	US EPA	70467-3		416-667-0071								
	US FDA	D142277		<b>CANUTEC</b> 1-613-996-6666								
CH BAG		CHZB0163										
Indication		Hospital hard surface disinfectant	Phone	416-667-7040								
			Fax	416-667-0071								
Emergency Phone #		CHEMTREC	1-800-424-9300									
2. HAZARD IDENTIFICATION												
Symbol Pictogram			Signal Word	Warning								
			Symbol	Flame								
Hazard Classification		Flammable Liquid Category 3										
Health Hazard		Use Care (See Precautionary and Hazard Statements)		Environmental Hazards	Biodegradeable ( OECD 301D)							
Precautionary & Hazard Statements		<b>P102:</b> Keep out of reach of children. <b>P210:</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. <b>P301:</b> IF SWALLOWED: Drink large quantities of water or milk. <b>P305:</b> IF IN EYES: Flush eyes with large quantities of water.										
		<b>H226:</b> Flammable liquid and vapour. <b>H302:</b> Harmful if swallowed. <b>H317:</b> May cause an allergic skin reaction. <b>H336:</b> May cause drowsiness or dizziness.										
3. COMPOSITION												
Chemical		CAS #	LD-50 (Oral, mg/kg) - Rat	Concentration (%)								
Ethanol		64-17-5	7,060 2,000	70.0%								
Chlorhexidine Gluconate		18472-51-0		0.2%								
4. FIRST AID MEASURES												
Inhalation	If breathing is difficult, remove individual to fresh air.		Ingestion	Drink large quantities of milk or water. Do not induce vomiting.								
Skin Contact	May cause dryness 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 and/or eye irritation.												
Indication of any Immediate Medical Attention and Special Treatment Needed												
Not Applicable.												
5. FIREFIGHTING MEASURES												
Use dry chemical, foam, or CO <sub>2</sub> . Use water spray to disperse vapours if needed. <b>Firefighters:</b> As with any fire, wear self-contained breathing apparatus.												
6. ACCIDENTAL RELEASE												
Use 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	ACGIH TLV	OSHA PEL	NIOSH	CCHOS								
Ethanol	STEL: 1000 ppm	(Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>								
9. PHYSICAL AND CHEMICAL PROPERTIES												
Physical State	Colour	Odour	Solidification point	Boiling point OECD 103	Flash Point ASTM D56							
Transparent, Liquid	Green	Lime, Pepper, Mango	-25°C	79°C	23°C							
Density g/ml @ 25°C												
.862												
pH												
9.5												
Kinematic Viscosity @ 23°C												
2.43 mm <sup>2</sup> /s												
10. STABILITY AND REACTIVITY												
Stable under normal conditions. <b>Incompatibility:</b> Strong oxidants, acid chlorides, silver salts <b>Decomposition:</b> Products: CO <sub>2</sub> , CO												
11. TOXICOLOGICAL DATA												
Acute Dermal Toxicity	LD <sub>50</sub> >5000 mg/kg Not found to be dermal sensitizer			Acute Oral	LD <sub>50</sub> >5000 mg/kg							
Ocular Irritation	0.0 severity after 7 days			Acute Inhalation Toxicity	LC <sub>50</sub> : 2.3 mg/L Rat							
Reproductive Hazards	Ingestion/inhalation can be harmful. (TDLo 300mg/Kg Ethanol)			Carcinogenicity	Ingestion of Ethanol IARC Group 1.							
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)		Fathead minnow (Pimephales promelas) LC50 = 14200 Mg/L/96h	Photobacterium Phosphoreum:EC50 = 34634 Mg/L/30 min Photobacterium Phosphoreum:EC50 = 35470 Mg/L/5 min	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h							
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	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												
TSCA – No reporting required.			CERCLA – No hazardous pollutants or ozone depletion.									
16. OTHER INFORMATION												
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.												
Effective Date:2025/10/31			Document: SURF 2.0									