






1. IDENTIFICATION										
Product Name		BioSURF		Manufacturer		Micyrium Laboratories Inc.				
Registration		CAN DIN		02209756		Address 5000M Dufferin Street, Toronto, Canada, M3H 5T5 www.micyrium.com				
		US EPA		70467-3						
		US FDA		D142277						
		CH BAG		CHZB0163						
Indication		Hospital hard surface disinfectant				Phone		416-667-7040		
Emergency Phone #		CHEMTREC		1-800-424-9300		Fax		416-667-0071		
						CANUTEC		1-613-996-6666		
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		<p>P102: Keep out of reach of children.</p> <p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.</p> <p>P301: IF SWALLOWED: Drink large quantities of water or milk.</p> <p>P305: IF IN EYES: Flush eyes with large quantities of water.</p>				<p>H226: Flammable liquid and vapour.</p> <p>H302: Harmful if swallowed.</p> <p>H317: May cause an allergic skin reaction.</p> <p>H336: May cause drowsiness or dizziness.</p>				
3. COMPOSITION										
Chemical		CAS #		LD-50 (Oral, mg/kg) - Rat		Concentration (%)				
Ethanol		64-17-5		7,060		70.0%				
Chlorhexidine Gluconate		18472-51-0		2,000		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 ₂ . Use water spray to disperse vapours if needed. Firefighters: 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 ³		IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³		TWA: 1000 ppm TWA: 1900 mg/m ³		
9. PHYSICAL AND CHEMICAL PROPERTIES										
Physical State		Colour		Odour		Solidification point		Boiling point OECD 103		
Transparent, Liquid		Green		Lime, Pepper, Mango		-25°C		79°C		
						Flash Point ASTM D56		Density g/ml@ 25°C		
						23°C		.862		
								pH		
								9.5		
								Kinematic Viscosity@ 23°C		
								2.43 mm ² /s		
10. STABILITY AND REACTIVITY										
Stable under normal conditions. Incompatibility: Strong oxidants, acid chlorides, silver salts Decomposition: Products: CO ₂ , CO										
11. TOXICOLOGICAL DATA										
Acute Dermal Toxicity		LD ₅₀ >5000 mg/kg Not found to be dermal sensitizer				Acute Oral		LD ₅₀ >5000 mg/kg		
Ocular Irritation		0.0 severity after 7 days				Acute Inhalation Toxicity		LC ₅₀ : 2.3 mg/L Rat		
Reproductive Hazards		Ingestion/inhalation can be harmful. (TDLo 300mg/Kg Ethanol)				Carcinogenicity		Ingestion of Ethanol IARC Group1.		
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. Micyrium Laboratories Inc. make no warranty expressed or implied.										
Effective Date: 2022/05/22			Revision Date: 2025/08/05			Document: SURF 1.7				