



1. IDENTIFICATION										
<b>Product Name</b>		BioSURF		<b>Manufacturer</b>		Micyrlum Laboratories Inc.				
<b>Registration</b>		<b>CAN DIN</b>		02209756		<b>Address</b> 5000M Dufferin Street, Toronto, Canada, M3H 5T5 www.micyrlum.com				
		<b>US EPA</b>		70467-3						
		<b>US FDA</b>		D142277						
		<b>CH BAG</b>		CHZB0163						
<b>Indication</b>		Hospital hard surface disinfectant				<b>Phone</b>		416-667-7040		
<b>Emergency Phone #</b>		<b>CHEMTREC</b>		1-800-424-9300		<b>Fax</b>		416-667-0071		
						<b>CANUTEC</b>		1-613-996-6666		
2. HAZARD IDENTIFICATION										
<b>Symbol Pictogram</b>					<b>Signal Word</b>		Warning			
					<b>Symbol</b>		Flame			
<b>Hazard Classification</b>		Flammable Liquid Category 3								
<b>Health Hazard</b>		Use Care (See Precautionary and Hazard Statements)				<b>Environmental Hazards</b>		Biodegradeable ( OECD 301D)		
<b>Precautionary &amp; Hazard Statements</b>		<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										
<b>Chemical</b>		<b>CAS #</b>		<b>LD-50 (Oral, mg/kg) - Rat</b>		<b>Concentration (%)</b>				
Ethanol		64-17-5		7,060		70.0%				
Chlorhexidine Gluconate		18472-51-0		2,000		0.2%				
4. FIRST AID MEASURES										
<b>Inhalation</b>		If breathing is difficult, remove individual to fresh air.				<b>Ingestion</b>		Drink large quantities of milk or water. Do not induce vomiting.		
<b>Skin Contact</b>		May cause dryness or irritation with prolonged contact.				<b>Eye Contact</b>		Flush with plenty of water.		
<b>Most Important Symptoms and Effects (Acute and Delayed)</b>										
May cause acute mild drowsiness, respiratory and/or eye irritation.										
<b>Indication of any Immediate Medical Attention and Special Treatment Needed</b>										
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.										
<b>Component</b>		<b>ACGIH TLV</b>		<b>OSHA PEL</b>		<b>NIOSH</b>		<b>CCHOS</b>		
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										
<b>Physical State</b>		<b>Colour</b>		<b>Odour</b>		<b>Solidification point</b>		<b>Boiling point OECD 103</b>		
Transparent, Liquid		Green		Lime, Pepper, Mango		-25°C		79°C		
								<b>Flash Point ASTM D56</b>		
								23°C		
								<b>Density g/ml@ 25°C</b>		
								.862		
								<b>pH</b>		
								9.5		
								<b>Kinematic Viscosity@ 23°C</b>		
								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										
<b>Acute Dermal Toxicity</b>		LD <sub>50</sub> >5000 mg/kg Not found to be dermal sensitizer				<b>Acute Oral</b>		LD <sub>50</sub> >5000 mg/kg		
<b>Ocular Irritation</b>		0.0 severity after 7 days				<b>Acute Inhalation Toxicity</b>		LC <sub>50</sub> : 2.3 mg/L Rat		
<b>Reproductive Hazards</b>		Ingestion/inhalation can be harmful. (TDLo 300mg/Kg Ethanol)				<b>Carcinogenicity</b>		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										
		<b>Land</b>			<b>Sea</b>			<b>Air (IATA)</b>		
		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. Micyrlum Laboratories Inc. make no warranty expressed or implied.										
Effective Date: 2022/05/22			Revision Date: 2025/08/05			Document: SURF 1.7				