


## **SAFETY DATA SHEETS**



**This SDS packet was issued with item:**

073248945

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071159342 071162247 074875282 074875316 074875605 074875621

<b>1 Identification</b>		<b>BioSURF</b>		<b>Indication</b> Liquid Spray/Wipe Disinfectant													
<b>Manufacturer</b>		Micrylium Laboratories Inc. 5000M Dufferin Street, Toronto, Canada M3H 5T5 Contact: 800-489-8868 www.micrylium.com															
<b>2 Hazard Identification</b>		<b>Health Hazard Identification</b>		<b>Physical Hazard Identification</b>		<b>Environmental Hazard Identification</b>											
		No serious Health Hazards		Flammable		Biodegradable, No Endocrine Disruptors											
<b>Hazardous Component</b>		<b>CAS#</b>		<b>UN#</b>		<b>R Phrases</b>		<b>Concentration</b>		<b>TLV</b>							
Perfumery Product with Flammable Solvents		na - Blend		1266		R 11		70.5%		>1000 ppm							
<b>3 Composition Chemical Characterization</b> Ethanol, Chlorhexidine Gluconate, Water with Non-Ionic Surfactants, anti-corrosives, Essential Oils																	
<b>4 First Aid Measures</b>																	
<b>General</b> Rinse with water				<b>Inhalation</b> Mild reversible irritation. May cause dizziness				<b>Ingestion</b> Drink quantities of milk or water to dilute									
<b>Skin contact</b> No adverse effects. Slightly drying				<b>Eye contact</b> Mild reversible irritation. Flush with plenty of water													
<b>5 Fire Fighting Measures</b> Use dry chemical, Foam or CO <sub>2</sub> . Use water spray to disperse vapours and cool items																	
<b>6 Accidental Release Measures</b> No specific measures are necessary provided vapours are not permitted to build up																	
<b>7 Handling &amp; Storage</b> Store in a cool, dry well ventilated location. Keep away from heat, sparks and flame. DO NOT mix with Bleach or Peroxides.																	
<b>8 Exposure Controls-Personal Protection</b> No specific measures required. Personal Protective Equipment not required.																	
<b>9 Physical &amp; Chemical Properties</b>																	
<b>Form</b>		<b>Colour</b>		<b>Scent</b>		<b>Solidification point</b>		<b>Boiling point</b>		<b>Flash Point</b>		<b>Density</b>		<b>pH</b>		<b>Kinematic Viscosity mm<sup>2</sup>/s</b>	
Liquid		Green		Lime		-20°C		87°C		17°C		.866		9.9		16	
<b>10 Stability &amp; Reactivity</b> Stable under normal conditions. <b>Incompatibility</b> Strong oxidants, acid chlorides, silver salts <b>Decomposition products</b> CO <sub>2</sub> CO																	
<b>11 Toxicological Data</b> BioSURF: Acute Dermal LD <sub>50</sub> >5000 mg/kg; Acute Inhalation rat LC <sub>50</sub> : 2.3 mg/L; Not found to be a dermal sensitizer: Acute Oral LD <sub>50</sub> >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. <b>Reproductive Hazards</b> Ingestion of large amounts can be dangerous <b>Carcinogenicity</b> None																	
<b>12 Ecological Information</b> <b>Surfactants are readily biodegradable linear ethanol ethoxylates. All ingredients USP Pharma or Food Grade</b> <b>Soil</b> Readily biodegrades <b>Water</b> Readily biodegrades <b>Air</b> Volatile <b>Disposal</b> Domestic																	
<b>13 Disposal considerations</b> Domestic, No restrictions. Water Dilution 4:1 for flammability considerations																	
<b>14 Transport Information</b>																	
<b>Land</b>				<b>Sea</b>				<b>IATA</b>									
 Hazard Class 3 UN1266 Packing Group II <b>Limited Qty 5 L max</b> Emergency Response Guide # 127				Hazard Class 3.2 <b>UN1266</b> <b>Packing Group II Limited Qty 5 L max</b> Emergency Response Guide # 127				Hazard Class 3 <b>UN1266</b> Packing Group II <b>Limited Qty 500 mL</b> Emergency Response Guide # 127									
<b>15 Regulatory</b> 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																	
<b>16 Other Information</b> 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.																	

1. IDENTIFICATION								
<b>Product Name</b>		BioSURF			<b>Manufacturer</b>		Micrylium Laboratories Inc.	
<b>Registration</b>		<b>CAN DIN</b>	02209756		<b>Address</b>		5000M Dufferin Street, Toronto, Canada, M3H 5T5 www.micrylium.com	
		<b>US EPA</b>	70467-3					
		<b>CH BAG</b>	CHZB0163					
		<b>DE BAUA</b>	N-24686					
<b>Indication</b>		Liquid disinfectant. Can also be used as a non-critical device immersion cleaner prior to sterilization.			<b>Phone</b>		416-667-7040	
					<b>Fax</b>		416-667-0071	
<b>Emergency Phone #</b>		CHEMTREC		1-800-424-9300		<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>		No Serious Health Hazards				<b>Environmental Hazards</b>		Biodegradeable
<b>Precautionary Statements</b>		P102: Keep out of reach of children. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. P301: IF SWALLOWED: Drink large quantities of water or milk. P305: IF IN EYES: Flush eyes with large quantities of water. H226: Flammable liquid and vapour. H302: Harmful if swallowed.						
3. COMPOSITION								
<b>Chemical</b>		<b>CAS #</b>		<b>LD-50 (Oral, mg/kg)</b>		<b>Concentration (%)</b>		
Ethyl Alcohol		64-17-5		7,060 (Rat)		70.5		
Chlorhexidine Gluconate		18472-51-0		2,000 (Rat)		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 to dilute. Do not induce vomiting.	
<b>Skin Contact</b>		No adverse effects. Slightly drying.			<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: 5° - 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.								
9. PHYSICAL AND CHEMICAL PROPERTIES								
<b>Physical State</b>	<b>Colour</b>	<b>Odour</b>	<b>Solidification point</b>	<b>Boiling point</b>	<b>Flash Point</b>	<b>Density</b>	<b>pH</b>	<b>Kinematic Viscosity</b>
Transparent, Liquid	Green	Lime, Pepper, Mango	-20°C	87°C	19°C	0.866	9.9	16 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 and Inhalation of large amount may be dangerous when pregnant			<b>Carcinogenicity</b>		Ingestion of ethyl alcohol IARC Group 1.	
Tests Performed by Product Safety Labs, Dayton, NJ USA								
12. ECOLOGICAL INFORMATION								
Surfactants are readily biodegradable in soil and water.								
13. DISPOSAL CONSIDERATIONS								
Domestic. Dilute 4:1 with water if there are flammability concerns.								
14. TRANSPORT INFORMATION								
Emergency Response Guide #127								
	<b>Land</b>		<b>Sea</b>			<b>Air (IATA)</b>		
	Hazard Class 3		Hazard Class 3.2			Hazard Class 3		
	UN 1170 Packaging Group II		UN 1170 Packaging Group II			UN 1170 Packaging Group II		
Limited Quantity 1L		Limited Quantity 1L			Special packaging			
15. REGULATORY INFORMATION								
TSCA – No reporting required.					CERCLA – No hazardous pollutants or ozone depletion.			
16. OTHER INFORMATION								
The information and recommendation 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.								
Effective Date: 2020/10/01			Revision Date: 2023/10/01			Document: SURF 1.7		