


## **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

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		Heath 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.																	
8 Exposure Controls-Personal Protection																	
No specific measures required. Personal Protective Equipment not required.																	
9 Physical & Chemical Properties																	
Form		Colour		Scent		Solidification point		Boiling point		Flash Point		Density		pH		Kinematic Viscosity	
Liquid		Green		Lime		-20°C		87°C		17°C		.866		9.9		mm <sup>2</sup> /s 16	
10 Stability & Reactivity																	
Stable under normal conditions.																	
Incompatability		Strong oxidants, acid chlorides, silver salts						Decomposition products		CO <sub>2</sub> 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 Satety 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		Volitile		Disposal		Domestic			
13 Disposal condiderations Domestic, No restrictions. Water Dilution 4:1 for flammability considerations																	
14 Transport Information																	
Land		Sea						IATA									
		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.																	

1. IDENTIFICATION								
Product Name	BioSURF			Manufacturer	Micrylium Laboratories Inc.			
Registration	CAN DIN	02209756		Address	5000M Dufferin Street, Toronto, Canada, M3H 5T5 www.micrylium.com			
	US EPA	70467-3						
	CH BAG	CHZB0163						
	DE BAUA	N-24686						
Indication	Liquid disinfectant. Can also be used as a non-critical device immersion cleaner prior to sterilization.			Phone	416-667-7040			
				Fax	416-667-0071			
Emergency Phone #	CHEMTREC			1-800-424-9300	CANUTEC	1-613-996-6666		
2. HAZARD IDENTIFICATION								
Symbol Pictogram				Signal Word	Warning			
				Symbol	Flame			
Hazard Classification	Flammable Liquid Category 3							
Health Hazard	No Serious Health Hazards				Environmental Hazards	Biodegradeable		
Precautionary Statements	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								
Chemical	CAS #	LD-50 (Oral, mg/kg)	Concentration (%)					
Ethyl Alcohol	64-17-5	7,060 (Rat)	70.5					
Chlorhexidine Gluconate	18472-51-0	2,000 (Rat)	0.2					
4. FIRST AID MEASURES								
Inhalation	If breathing is difficult, remove individual to fresh air.		Ingestion	Drink large quantities of milk or water to dilute. Do not induce vomiting.				
Skin Contact	No adverse effects. Slightly drying.		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. 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: 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								
Physical State	Colour	Odour	Solidification point	Boiling point	Flash Point	Density	pH	Kinematic Viscosity
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.								
Incompatibility: Strong oxidants, acid chlorides, silver salts			Decomposition: 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 and Inhalation of large amount may be dangerous when pregnant			Carcinogenicity	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								
	Land	Sea			Air (IATA)			
	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				