



- Shocks
- Antimicrobial
- Multi-Purpose



# **COMPLETE WATERLINE**DISINFECTANT & SHOCK SOLUTION

LINES is a full strength ready-to-use maintenance product for potable water systems. Designed to shock and maintain dental unit waterlines and other water systems with narrow bore polymer tubing and mixed metal components. LINES provides fast and effective cleaning in the presence of biofilms, minimizing the impact on the environment, people and equipment. Fresh licorice-mint scent.



DIN 02240323

# **BACTERICIDAL & FUNGICIDAL**

# **FASTER**



# **30-Second Solution**

A 30-second water purge will reduce the LINES content to 18 ppm of CFUs. Will not damage resin bonding.



## **Clean Waterlines**

Nightly use of LINES will ensure the next day's water begins at 0 CFU (Colony Forming Units).



### **Quick Biofilm Removal**

Removes accumulated waterline biofilm. Biofilm is the main source of bacterial contamination and handpiece clogging.

# **SAFER**



# Safe for Equipment

Will not corrode metals, clog valves, stain or stick to waterlines. Approved by major manufacturers for use in their equipment.



# **Antimicrobial**

Using full strength protects patients and staff from cross-contamination. It ensures the kill of serious pathogens such as *Pseudomonas aeruginosa*.



# Reduces Airborne Bacteria

Protects patients and staff from bacterial aerosols generated by the cutting or scaling of teeth.

# KINDER



### **Environmentally Friendly**

All products are made with biodegradable ingredients. Contains no toxic substances.



#### **Economical Usage**

One 500mL bottle will fill approximately 166 metres of 1/16" dental tubing or 63 metres of 1/8" tubing. 30mL per unit per week.



# **Certified Biodegradable**

All ingredients are USP Pharma grade and/or food grade quality



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## WATERLINE STUDY



Average bacterial counts:

- Dentist with city water 375,000 CFU/mL
- Dentist with well water 1,200,000 CFU/mL
- · Grocery misting line
- Dentist using LINES

<200 CFU/mL

## WATER QUALITY



Ensure quality of source water: Do not pass distilled water through charcoal filters; they are excellent substrates for bacterial growth. Regularly disinfect containers used to collect distilled water with a non-toxic product such as Lines.

# **CLOSED WATER SYSTEMS**



Closed systems are often **contaminated** by air pressurizing them. Monitor compressor air for microbial contamination; change compressor filters and install air dryers as needed. If quality of incoming water is of good quality, then reduce use to weekends after the first month. If quality of water is excellent (i.e. Sterile Ozonated, UV treated) then weekend use once per month is all that is necessary.

# **HOW TO USE**





First, air purge water lines. Then run 30-60 mL of LINES through the tubing until the fluid is visible at the egress.



512 CFU/mL



Leave product in the tubing overnight, throughout the weekend or for extended periods.





After first time
overnight/weekend use of
LINES, thoroughly flush
tubing with water for at least
5 minutes. Biofilm (thick
slime) may be discharged the
first time. Remove

handpieces to avoid plugging.





New users should use LINES nightly for 3 weeks.





LINES will maintain the unit when used weekly. To ensure the best water quality, use nightly.



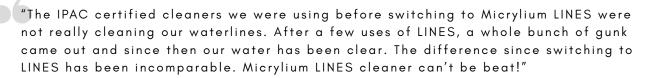


removed and dead-end tubing (low speed or QD outlets) should be drained before use and capped at the control block. Disconnect all dead waterline legs including slow speed waterlines.

### PRODUCT SPECIFICATION DATA

Item Number	Product Description	Packaging
03-BLUE-005	Lines 5L Bag-in-Box RTU	1 Box

# **CUSTOMER REVIEWS**



Maria Peragine, RDH, Glow Dental









# **COMPLETE WATERLINE**

DISINFECTANT & SHOCK SOLUTION

# THE ECO-PACK



The Eco-Pack bag-in-a-box contains a sealed biodegradable plastic bag and dispensing spigot. This design ensures no outside air comes in contact with the solution at any point before it is dispensed. This maximizes the solution's antimicrobial properties. Square box design vs round bottles maximizes storage space. Both the box and bag collapse for easy disposal.

### OUR MASCOT



Frogs are highly sensitive to their surroundings due to their permeable skin. The presence of a healthy frog population is a strong indicator of a balanced and healthy eco-system. Micrylium uses the frog as our mascot because we subscribe to creating products and packaging that are eco-friendly, biodegradable and sustainable. LINES contributes to keeping our water systems clean and healthy.

## **DID YOU KNOW?**



LINES can be left in the dental unit for extended periods (up to 6 months). It can also be used to clean hand pieces and other instruments prior to sterilization. Always rinse before with distilled water. This solution will eliminate the bad odours and tastes that occur during procedures.

# **CONTACT TIME**

Pathogen Type	Strain	Effective Contact Time
Bacteria	Salmonella choleraesuis (ATCC 10708)	6 hours
Bacteria	Pseudomonas aeruginosa (ATCC 15442)	6 hours
Bacteria	Staphylococcus aureus (ATCC 6538)	6 hours
Bacteria	Escherichia coli (NCTC 10541)	6 hours
Fungi	Trichophyton mentagrophytes (ATCC 9533)	6 hours

Note: Initial Formulation Batch (aged 60 days) tested on 60 replicates as indicated in AOAC method 955.15 for confidence level of 95%. Each Production Batch is tested with 10 replicates (0% failure) to monitor ongoing quality control specifications for each product.

\* Testing performed at Nucro-Technics Laboratory, 2000 Ellesmere Road, Unit 16 Scarborough, Ontario
All other tests performed at Micrylium Laboratories, 117 Dolomite Drive, North York, Ontario

























Dundrick Marri	1			Manageria	'		Brown I I I I I I	- 1			
Product Name	Lines			Manufactur	er		lium Laboratorie				
Registration	CAN			Address		5000M Dufferin Street,					
	US F	OA 973765				Toronto, Canada, M3H 5T5					
	EU CI	E Class I		1			micrylium.com				
ndication	NA - dia			Phone		416-667-7040					
nuication	Medic	Medical Device Disinfectant / Cleaner		Fax 416-667-0071		67-0071					
mergency Phone #				1-800-424-9300 CANUTEC				1-613-996-6666			
2. HAZARD	IDENTIFICA	TION									
ymbol Pictogram				Signal Wor	rd	Not A	Applicable				
		Not Applicable			Symbol Not Applicable		Applicable				
01	Not A	nnlicable					7-1				
Classification Health Hazard		Not Applicable  No Serious Health Hazards				Environmental Hazards				Biodegradeabl	
Tealth Hazaru	140 00	nous ricalii riazarus					ommentar naza	us		Blodegradeabi	
Precautionary	,						: Keep out of re				
&		H302: Harmful if s	swallowed.				: IF SWALLOW				
Hazard Statemer	nts					P305	: IF IN EYES: F	lush eyes	with larg	e quantities of	water.
3. COMPOS	NOTE										
	DITION		CAC#		I D 50 /	(O==1 -	mar/leas) Dat	Component	-ti (0/ \		
themical thanol			<b>CAS #</b> 64-17-5		7,060	orai, i	mg/kg) - Rat	9.5%	ation (%)		
thlorhexidine Glucor	nate		18472-51-0		2,000			0.1%			
ylitol			87-99-0		4,000			0.6%			
	D MEASURE	S			1,000						
nhalation	If breathing	is difficult, remove indi	vidual to fresh ai	ir.	Ingestion		Drink large qu	antities of m	ilk or wat	er to dilute.	
Skin Contact	No adverse				Eye Conta	act	Flush with plea	nty of water.			
		ffects (Acute and Dela	ıyed)								
May cause mild rever											
	mediate Medi	cal Attention and Spe	cial Treatment	Needed							
Not Applicable. <b>5. FIREFIG</b>	HTING MEAS	IIDEC									
	TING WEAS	UNLO									
lon-Flammable. <b>6. ACCIDEN</b>	NTAL RELEA	QE .									
Jse all means to prev		<b></b>									
7. HANDLIN	IG & STORA	GE									
Store in a cool, drv. v	vell-ventilated l	ocation. Keep away fro	m heat, sparks a	and flames. DC	NOT mix	with bl	leach or peroxid	es. Storage	and Trar	sport: 0°- 30°C	;
8. EXPOSU	RE CONTRO	LS/ PERSONAL PRO	DTECTION								
No specific measures	required.										
9. PHYSICA	I AND OUT										
J. FITTOILA	AL AND CHE	MICAL PROPERTIES									
		MICAL PROPERTIES	T	an naint	Boiling n	oint	Flash Point	Densit	v a/ml		Kinemati
Physical State	Colour	Odour	Solidificati	on point	Boiling po		Flash Point ASTM D56	Densit @ 2	y g/ml 5°C	рН	
Physical State Transparent, Liquid	Colour Light Blue	Odour Licorice-Mint	T	•		03		Densit @ 28	5°C	<b>pH</b> 6.0	
Physical State	Colour Light Blue	Odour Licorice-Mint	Solidificati	•	OECD 10	03	ASTM D56	@ 2	5°C	-	Viscosity@2
Physical State Transparent, Liquid 10. STABILIT	Colour  Light Blue  TY AND REA	Odour Licorice-Mint	Solidificati	С	0ECD 10 105°C	03	<b>ASTM D56</b> 45°C	0.9	5°C	-	Viscosity@2
Physical State Transparent, Liquid 10. STABILIT	Colour Light Blue TY AND REAG	Odour  Licorice-Mint  CTIVITY  compatibility: Strong ox	Solidificati	С	0ECD 10 105°C	03	<b>ASTM D56</b> 45°C	0.9	5°C	-	Viscosity@2
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Physical State Transparent, Liquid 10. STABILIT Itable under normal of Acute Dermal Toxic Coular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readile Ethanol  13. DISPOSA Domestic. 14. TRANSP	Light Blue TY AND REAG CONDITION OF THE PROPERTY OF THE PROPER	CTIVITY Compatibility: Strong ox TA Iot found to be dermal single strong inhalation can logs, rabbits cows, MATION Ide in soil and water. Pe EC50 (72h) = 27 (Chlorella vulgar	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh y based on ava Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Ac Ac Ca Caumed.	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore	© 26 0.9 CO <sub>2</sub> , CO Foxicity  otobacterium eum:EC50 = gg/L/30 min tobacterium eum:EC50 = lg/L/5 min	N/A   N/A   N/A   Ingest	6.0	Viscosity@2 12mm²/s 12mm²/s IARC Group 1.
Physical State  Transparent, Liquid  10. STABILIT table under normal of the content of the conte	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  Ods Ir is toxic to co GICAL INFORM  AL CONSIDER  ORT INFORM  Land  N/A  N/A	CTIVITY Compatibility: Strong ox TA Iot found to be dermal single strong inhalation can logs, rabbits cows, MATION Ide in soil and water. Pe EC50 (72h) = 27 (Chlorella vulgar	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh  y based on ava  Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Ac Ac Ca Caumed.	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore	CO <sub>2</sub> , CO  CO <sub>2</sub> , CO  Toxicity  Ditobacterium EC50 = gg/L/30 min  Ditobacterium EC50 = lg/L/5 min  Ai  N/	N/A   N/A   N/A   Ingest	6.0	Viscosity@2 12mm²/s 12mm²/s IARC Group 1.
Physical State Transparent, Liquid 10. STABILIT Itable under normal of Acute Dermal Toxic Ocular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readil Ethanol  13. DISPOSA Domestic. 14. TRANSP Not regulated	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  Ods Ir is toxic to co CICAL INFORM  AL CONSIDER  ORT INFORM  Land  N/A  N/A  N/A	CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days regestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh y based on ava Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Ac Ac Ca Caumed.	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore	© 26 0.9 CO <sub>2</sub> , CO Foxicity  otobacterium eum:EC50 = gg/L/30 min tobacterium eum:EC50 = lg/L/5 min	N/A   N/A   N/A   Ingest	6.0	Viscosity@2 12mm²/s 12mm²/s IARC Group 1.
Physical State  Transparent, Liquid  10. STABILIT  Stable under normal of the stable under normal of t	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  Ods Ir is toxic to co CICAL INFORM  AL CONSIDER  ORT INFORM  Land  N/A  N/A  N/A	CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days regestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh  y based on ava  Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Ac Ac Ca Caumed.	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore	CO <sub>2</sub> , CO  CO <sub>2</sub> , CO  Toxicity  Ditobacterium EC50 = gg/L/30 min  Ditobacterium EC50 = lg/L/5 min  Ai  N/	N/A   N/A   N/A   Ingest	6.0	
Physical State Transparent, Liquid 10. STABILIT Stable under normal of 11. TOXICOI Acute Dermal Toxic Ocular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readil Ethanol  13. DISPOSA Domestic. 14. TRANSP Not regulated  N/A  15. REGULA	Light Blue TY AND REAG CONDITION OF THE PROPERTY OF THE PROPER	CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days regestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh  y based on ava  Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Accade	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore	© 25 0.9 CO <sub>2</sub> , CO Foxicity  Stobacterium EC50 = g/L/30 min tobacterium EC50 = lg/L/5 min  Ai N/	N/A N/A N/A Ingest = 34634	EC50 EC50 :	Viscosity@2   12mm²/s   12mm²/s
Physical State Transparent, Liquid 10. STABILIT Stable under normal of 11. TOXICOI Acute Dermal Toxic Ocular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readil Ethanol  13. DISPOSA Domestic. 14. TRANSP Not regulated  N/A  15. REGULA	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  O ds  Ir is toxic to co CICAL INFORM  AL CONSIDEI  ORT INFORM  Land  N/A  N/A  N/A  TORY INFORM  required.	CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days ngestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga	Solidificati -5°0  idants, acid chlo sensitizer  be harmful. (TD baboons and rsistence unlikel	Lo 300mg/Kg I d horses wh  y based on ava  Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas	mposition Accade	ASTM D56 45°C  tion: Products:  ute Oral ute Inhalation rcinogenicity .  Phosphore Phosphore N Phosphore N	© 25 0.9 CO <sub>2</sub> , CO Foxicity  Stobacterium EC50 = g/L/30 min tobacterium EC50 = lg/L/5 min  Ai N/	N/A N/A N/A Ingest = 34634	EC50 EC50 :	Viscosity@2   12mm²/s     IARC Group 1.   = 9268 mg/L/48h  = 10800 mg/L/24h
Physical State Transparent, Liquid 10. STABILIT Stable under normal of 11. TOXICOI Acute Dermal Toxic Ocular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readil Ethanol  13. DISPOSA Domestic. 14. TRANSP Not regulated  N/A  15. REGULA	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  O ds  Ir is toxic to co CICAL INFORM  AL CONSIDEI  ORT INFORM  Land  N/A  N/A  N/A  TORY INFORM  required.	CTIVITY Compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days rgestion/inhalation can logs, rabbits cows, MATION Le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga) RATIONS  RATION  RATION	Solidificati -5°( idants, acid chlosensitizer be harmful. (TD baboons and rsistence unlikel 5 mg/l aris)	Corides, silver sa Lo 300mg/Kg I d horses wh y based on ava Fatheac (Pimephale LC50 = 142	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promelas 200 Mg/L/96	mposition Accarding Accard	ASTM D56 45°C  tion: Products:  tute Oral tute Inhalation rcinogenicity .  Phosphore Phosphore N Phosp	CO <sub>2</sub> , CO  Foxicity  otobacterium eum:EC50 = g/L/30 min tobacterium eum:EC50 = lg/L/5 min  Ai N/ N/ N/ ardous pollu	N/A N/A Ingest	6.0  EC50 EC50:	Viscosity@2   12mm²/s     IARC Group 1.   = 9268 mg/L/48h  = 10800 mg/L/24h
Physical State  Transparent, Liquid  10. STABILIT table under normal of the content of the conte	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  Stock to co GICAL INFORM By biodegradab  AL CONSIDER  ORT INFORM  Land  N/A  N/A  N/A  TORY INFORM  NFORMATIO	Licorice-Mint CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days ngestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulg:	solidificati -5°0 idants, acid chlo censitizer be harmful. (TD baboons and rsistence unlikel 5 mg/l aris)	corides, silver sa Lo 300mg/Kg I d horses wh y based on ava Fatheac (Pimephale LC50 = 142  Sea N/A N/A N/A N/A	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promela: 200 Mg/L/96	mposition Accarding Accard	ASTM D56 45°C  tion: Products:  ute Oral ute Inhalation rcinogenicity .  Phosphore Phosphore N	CO <sub>2</sub> , CO  CO <sub>2</sub> , CO  Coxicity  Coxi	N/A   N/A   N/A   Ingest   N/A   N	EC50 EC50:	Viscosity@2 12mm²/s 12mm²/s IARC Group 1. = 9268 mg/L/48t = 10800 mg/L/24t
Physical State Transparent, Liquid 10. STABILIT Stable under normal of 11. TOXICOI Acute Dermal Toxic Ocular Irritation Reproductive Hazar CAUTION: Xylitol 12. ECOLOG Surfactants are readil Ethanol  13. DISPOSA Domestic. 14. TRANSP Not regulated  N/A  15. REGULA TSCA – No reporting 16. OTHER II	Light Blue TY AND REAG Conditions. Inco LOGICAL DA ity  Stock to co GICAL INFORM By biodegradab  AL CONSIDER  ORT INFORM  Land  N/A  N/A  N/A  TORY INFORM  NFORMATIO	Licorice-Mint CTIVITY compatibility: Strong ox TA lot found to be dermal s .0 severity after 7 days rgestion/inhalation can logs, rabbits cows, MATION le in soil and water. Pe EC50 (72h) = 27 (Chlorella vulga) RATION  RATION  The information and is offered in good faith,	solidificati -5°0 idants, acid chlo censitizer be harmful. (TD baboons and rsistence unlikel 5 mg/l aris)	corides, silver sa Lo 300mg/Kg I d horses wh y based on ava Fatheac (Pimephale LC50 = 142  Sea N/A N/A N/A N/A	OECĎ 10 105°C alts Decor Ethanol) en consu ailable data d minnow es promela: 200 Mg/L/96	mposition Accarding Accard	ASTM D56 45°C  tion: Products:  ute Oral ute Inhalation rcinogenicity .  Phosphore Phosphore N	CO <sub>2</sub> , CO  CO <sub>2</sub> , CO  Coxicity  Coxi	N/A N/A Ingest  1 = 34634 1 = 35470  ir (IATA) I/A	EC50 EC50:	Viscosity@2   12mm²/s   12mm²/s