

THE THERMAL-LUBE

MAPS® MATRIX47™

SURFACE COATING

WHAT IS MAPS® MATRIX47™

- **MAPS® MATRIX47™** is the latest addition to a series of low-toxicity S.M.A.R.T. Polymers specifically to be sprayed on virtually any surface.
- **MAPS® MATRIX47™** is formulated with distinctive and proprietary ingredients based on organic acids, and natural products dissolved or suspended in a safe, water- soluble gel-type matrix.
- **MAPS® MATRIX47™** is an innovative S.M.A.R.T Polymer carefully blended with an EPA-registered antimicrobial dispersed throughout its' Polymer matrix*.
- **MAPS® MATRIX47™** is a water-based solution that leaves a colorless, microscopic polymer coating when sprayed on surfaces and allowed to dry.
- **MAPS® MATRIX47™** is elastic and will continuously adapt to changing ambient conditions and moisture levels over wide temperature fluctuations.
- **MAPS® MATRIX47™** is durable and will remain in place for periods up to 3 months depending upon the frequency of contact with the treated surfaces. Surfaces of high contact areas should be treated more often.

WHY DOES IT WORK?

- **MAPS® MATRIX47™** is formulated with **HEIQ V-BLOCK** which becomes part of the polymer matrix rendering **MAPS® MATRIX47™** microbe resistant*.
- **MAPS® MATRIX47™** effectively resists spoilage and deterioration by microorganisms*.

DIRECTIONS FOR USE:

- **MAPS® MATRIX47™** is a Ready-To-Use Formulation. No dilution or preparation required. Mix well before use.
Clean surface to be treated and be sure the surface is completely dry before application. Check for substrate compatibility in a non-conspicuous section prior to use. May be sprayed, misted, or fogged.

PRODUCT INFORMATION:

- **S.M.A.R.T Polymers** are proprietary formulations owned and manufactured by SynBionic Évolution Inc. These water-based polymers exhibit very low toxicity.
- **PAI Supply Llc.**, is SynBionic Évolution's exclusive marketing, sales, and distribution partner for **MAPS® MATRIX47™**



NOTE: *Antimicrobial properties built in to protect the Polymer. This Polymer does not protect users or others against bacteria, viruses, germs or other disease organisms.



255 Ave Labrosse, Pointe-Claire, Québec, Canada H9R 1A3

T: +1.514.694.5823; www.thermal-lube.com

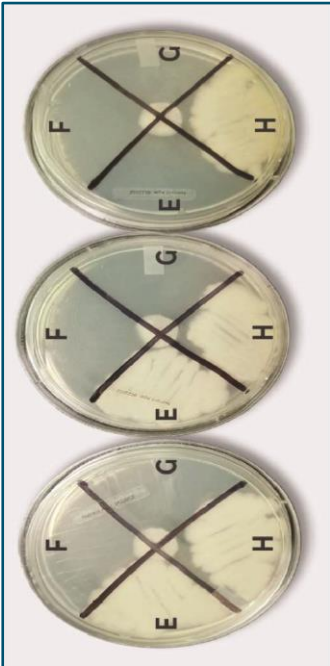
The information presented in this bulletin is, to the best of our knowledge accurate. It is intended to be helpful, and not considered to be a guarantee. L'information donnée dans ce bulletin est, au meilleur de nos connaissances, exacte. L'intention de ce bulletin est pour votre aide et non une garantie.

HEIQ V-BLOCK TECHNOLOGY IS: US FIFRA and EU REACH compliant. Treated articles are compliant with EU BPR and US EPA*.

ZDHC (Zero Discharge of Hazardous Chemicals) homologized*.

Non-toxic*.

Certified as safe and sustainable as all its ingredients are cosmetic grade, bio-based (72% bio-based carbon) and recycled*.



Extensive laboratory testing using various concentrations of **MAPS® MATRIX47™** inoculated with **Escherichia coli**, **Lactobacillus casei**, **Bacillus subtilis** and **Aspergillus niger** prove that when **MAPS® MATRIX47™** is used at the recommended rate, prevents the growth of bacteria and fungi within the surface coating.

QUADRANT	MAPS™ MATRIX-47	RESULTS
E	Blend of 75% MAPS® MATRIX47™ 25% Water	Killed in only 1 of the 3 replications rendering this concentration invalid
F	Full strength rate of MAPS® MATRIX47™ RTU as recomm ended	No microbial growth in any of 3 replicates
G	Double MAPS® MATRIX47™ Concentration	Performed as well as RTU
H	Control, no treatment	Uninhibited extensive microbial growth

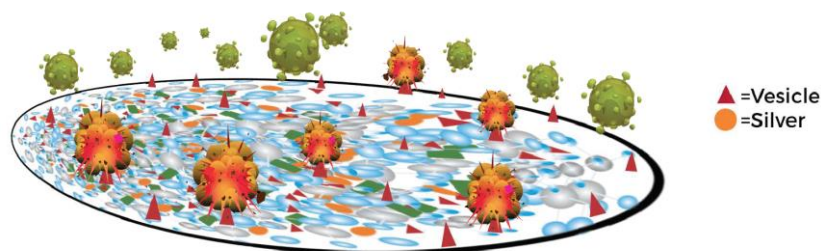
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effectively resists spoilage and deterioration by microorganisms.

MAPS® MATRIX47™ 7 combines HeiQ's specially engineered antimicrobial silver technology and uses fatty liposome vesicle technology as a booster for rapid efficacy and to inhibit the growth and persistence of microorganisms on the polymer surface.



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