

BIO DOME GROUP

Natural, Effective and Eco Friendly Products Designed to Keep You and the Earth Safer and Healthier.





ABOUT US

Bio Dome's mission is to offer a variety of natural, effective and eco friendly products to meet the needs of businesses and consumers who desire keeping themselves and earth safer and healthier.

Bio Dome Group offers an assortment of natural and safe products, whether, you are wanting an effective, safe anti-microbial and anti-viral, a safe natural alternative to cleaning and deodorizing or safer alternative to traditional herbicides, without sacrificing effectiveness.

Given the issues that businesses and society at large face today, MAPS-1 and MATRIX-47 offer business proprietors an effective option which will provide broad spectrum kill and a long lasting sealant, respectively. We offer MAPS-1 and Matrix 4 7 as a 2-step treatment and protection from over 50 pathogens. MAPS-1 is an EPA approved, ready-to-use (RTU), broad spectrum, food surface safe disinfectant. It is very safe and has limited, if any, negative impact to surfaces and environments.

Using Matrix 47 with built in silver technology as the second step, applies a surface coating on surfaces and allowing them to be protected for up to 3 months depending upon traffic. This product is safe on surfaces, including food contact surfaces and food processing so there is no need to move or cover anything prior to treatment. These 2 products have gone through extensive laboratory testing and trials.

Bio Dome Group completely supports company applicators by providing training for the application of MAPS-1 and Matrix 47, as well as all of the products we offer.

Bio Dome also offers Origens products which are natural cleaning and odor control products. The Origens brand uses bacillus to degrade specific bacteria. By harnessing the power of nature using microbial formulas, enzymes, oils and other safe, and natural ingredients, Origens products clean and deodorize. Origens' products are safe for families as well as pets. Origens can be used in between MAPS and MATRIX 47 applications to help eliminate any additional bacteria issues.

Bio Dome Group also offers Avenger Weed Killer. Avenger is EPA approved and is a safer alternative to using traditional weed killers that contain hazardous unhealthy chemicals such as glyphosate.

Bio Dome Group brings over 25 years of experience with a team who have worked in the health, safety and natural products industries. Led by owner Judy Faircloth, Bio Dome Group is well versed in the effects of chemicals in our food and environment. This prompted a search for the best safe and highly effective products for businesses, homes and gardens.

With the emergence of SARS-Cov -2 virus in 2020, the search expanded to find a safer alternative to the chemicals being used in all areas of business and in homes. Working with the makers of MAPS-1 and Matrix 47, we are able to offer dual protection technology, that is not only safe and effective, but also can protect surfaces for up to three months AND be used on food prep surfaces and in all medical facilities.

Start offering Bio Dome Group Products TODAY!
Call us at (470) 955-3207



MAPS-1 RTU is a one-step, easy-to-use broad-spectrum disinfectant and sanitizer for use against bacteria, fungi and viruses, including corona viruses. It is approved for use in hospitals, institutions, schools, restaurants, industrial plants and food handling facilities including all meat/poultry plants.

MAPS-1 RTU KILLS OVER 50 PATHOGENS INCLUDING HUMAN CORONAVIRUS

MAPS-1 RTU has demonstrated effectiveness against viruses similar to SARS-CoV-2, a novel coronavirus, on hard, non-porous surfaces. Therefore, **MAPS-1 RTU** can be used against SARS-CoV-2 when used in accordance with the directions for use against Norovirus on hard, non-porous surfaces.

***MAPS-1 RTU** will kill a broad spectrum of microorganisms when surfaces remain wet for 10 minutes. A 10-minute dwell time is required to kill SARS-CoV-2, on hard, non-porous surfaces. **Follow label instructions*

MAPS-1 RTU is perfect for any industry or business including:

- schools/universities
- nursing homes
- doctor's offices
- hospitals/clinics
- prisons/jails
- mass transit
- banks
- gyms/fitness centers
- government buildings
- restaurants
- hotels
- sports venues
- movie theaters
- police departments
- businesses
- veterinarian offices
- grocery/convenience stores
- and much more



MAPS-1 RTU IS FOOD SERVICE SAFE AND IS TRUSTED BY HOSPITALS FOR YEARS.

MAPS-1 RTU can be used on all sorts of washable hard, non-porous surfaces including:

- non-glazed ceramic
- glazed enamel
- glazed porcelain
- laminated surfaces
- sealed granite
- sealed limestone
- sealed marble
- sealed slate
- sealed tarazzo
- stainless steel
- vinyl/plastic upholstery
- finished woodwork



SAFETY IS FIRST WITH MAPS-1 RTU!



MAPS-1 RTU diluted 1:1 with water has been cleared under 40 CFR 180.940 (a) for use on Food Processing Equipment, Utensils in Dairies, Public Eating Establishments, Food Contact Surfaces, Utensils in Food Processing Plants, and other food-contact articles at a concentration of 230 ppm active. *See Exhibit A

* **MAPS-1RTU** diluted 1:1 with water does not require surface rinsing post application. **MAPS-1 RTU** diluted 1:1 with water is one of the few sanitizers that is food surface safe for sanitizing at a concentration of 230 ppm active.

MAPS-1RTU is an EPA registered food surface safe quaternary ammonium that carries a **minimum** label restriction of CAUTION while offering a broad spectrum kill of pathogens in one to ten minutes. It is one of the softer chemistries available with a high level of proven efficacy. When choosing a product it is important that you evaluate two extremely important factors - **Effectiveness of Product** and the **Safety/User Friendliness of Application and Use**.

For safety, signal words are found on all pesticide product labels. These words describe human acute toxicity of the formula in the container.

There are four signal levels used on product labels: **Caution, Warning, Danger, and Danger - Poison**. Each has a clearly defined meaning. While you should be careful around all pesticide products and follow all safety instructions no matter which signal word is indicated, it is very important to know the difference between the varying levels of signal words.

Signal words inform pesticide users of hazards associated with their pesticide of choice. Signal words can be used to select a pesticide of lesser toxicity that can effectively control target pests.

It is important to recognize all pesticides have the potential to be toxic to humans when used in high doses. **Always** read and follow label directions before applying any pesticide. The label also tells what PPE (personal protective equipment) is required.

MAPS-1RTU carries the lowest level of "Signal" words and is one of the softer chemistries available with a high level of proven efficacy.

MAPS-1RTU is classified with the **CAUTION** signal word. "**CAUTION**" indicates pesticide product is slightly toxic if inhaled, absorbed through the skin, or eaten and causes minor eye irritation.

Other products carry more stringent signals/classifications as:

- **Danger Poison:** Highly toxic by at least one exposure entry into the body. Includes skull & crossbones.
- **Danger:** Can cause serious eye damage or skin irritation (no skull & crossbones).
- **Warning:** Moderately toxic when eaten, inhaled, absorbed through skin or moderate skin/eye irritation

*See MAPS-1 RTU label for application instructions - Exhibit B

USE WITH MATRIX-47 FOR A COMPLETE 1-2 PUNCH TO KNOCKOUT BACTERIA, FUNGI AND VIRUSES FOR UP TO A *90-DAYS!

* Surfaces of high contact areas should be treated more often.

MATRIX 47 ANTIMICROBIAL SURFACE COATING



Extensive laboratory testing using various concentrations of MAPS™ MATRIX-47 inoculated with *Escherichia coli*, *Lactobacillus casei*, *Bacillus subtilis* and *Aspergillus niger* prove that when MAPS™ MATRIX-47 is used at the recommended rate, prevents the growth of bacteria and fungi within the surface coating.

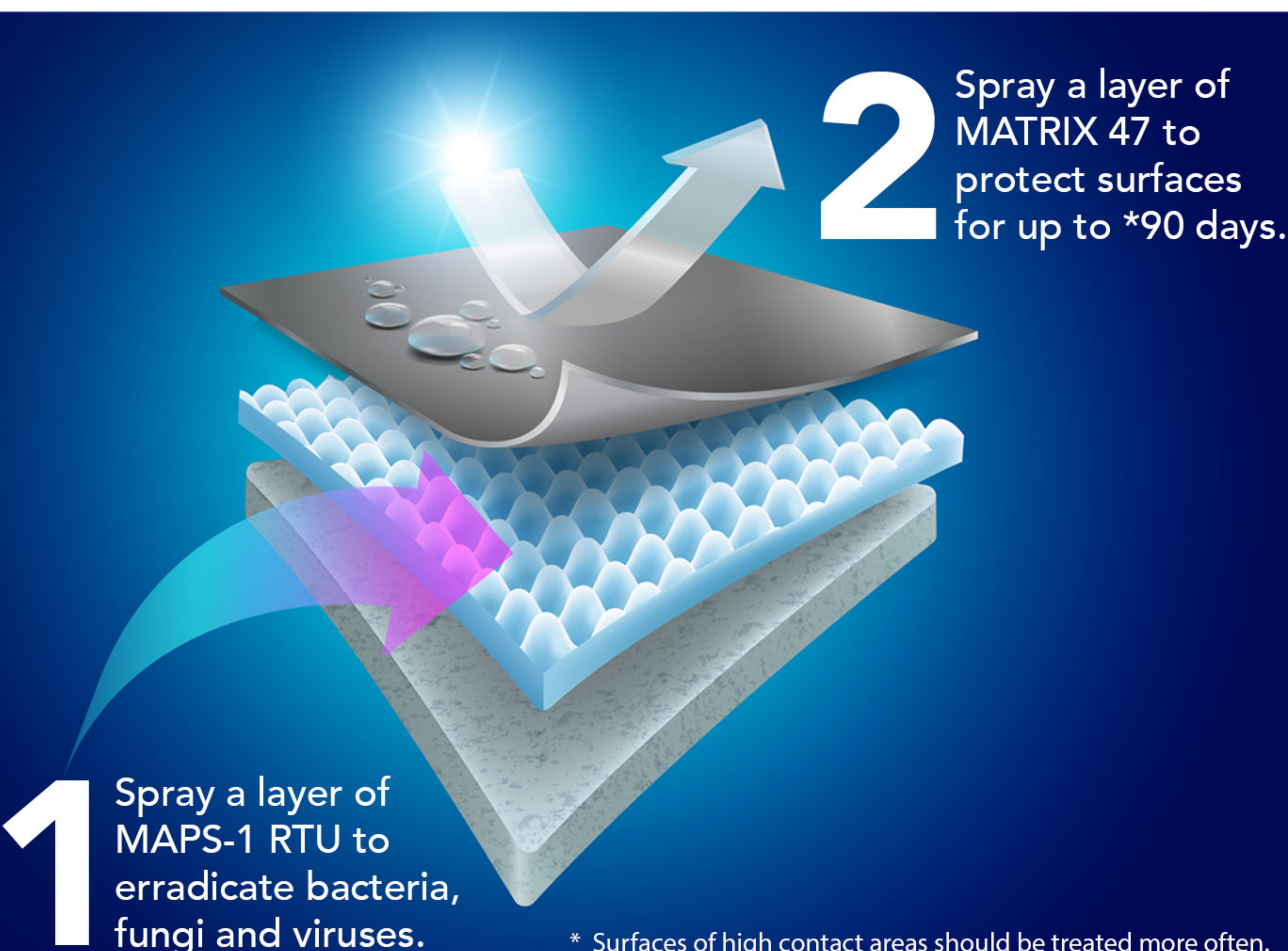


QUADRANT	MAPS™ MATRIX-47	RESULTS
E	Blend of 75% MAPS™ Matrix 47 + 25% Water	Killed in only 1 of the 3 replications rendering this concentration invalid
F	Full strength rate of MAPS™ Matrix 47 RTU as recommended	No microbial growth in any of 3 replicates
G	Double MAPS™ Matrix 47 Concentration	Performed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

MAPS™ MATRIX-47 is durable and will remain in place for periods up to 3 months, depending on the frequency of contact on the treated surfaces. Surfaces of high contact frequency should be treated more often. **MAPS™ MATRIX-47** effectively resists spoilage and deterioration by microorganisms.

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.

USE WITH MAPS-1 RTU FOR A COMPLETE 1-2 PUNCH TO KNOCKOUT BACTERIA, FUNGI AND VIRUSES FOR UP TO A *90-DAYS!



Combining **MAPS-1 RTU** and **MAPS™ MATRIX-47** gives you a complete power duo to eradicate bacteria, fungi and viruses and then protect surfaces for up to *90 Days.

Both come in 5 gallon pails.

CALL US TODAY FOR MORE INFORMATION

(470) 955-3207

www.bio-domegroup.com

WHAT IS MAPS™ MATRIX 47 SURFACE COATING?

Powered By:
HEIQ
V-BLOCK

MAPS™ MATRIX-47 IS...

- A low-toxicity S.M.A.R.T. Polymer to be sprayed on virtually any surface.
- Formulated with proprietary ingredients based on organic acids, and natural products dissolved or suspended in a safe, water-soluble gel-type matrix.
- An innovative S.M.A.R.T Polymer carefully blended with an EPA Registered antimicrobial dispersed throughout its' Polymer matrix*.
- A water-based solution that leaves a colorless, microscopic polymer coating when sprayed on surfaces and allowed to dry.
- Elastic and continuously adapts to changing ambient conditions and moisture levels over wide temperature fluctuations.
- Durable and remains in place for up to 3 months depending upon frequency of contact on treated surfaces. Surfaces of high contact areas should be treated more often.



WHY DOES MAPS™ MATRIX-47 WORK? BECAUSE IT'S...

- Formulated with HEIQ V-BLOCK which becomes part of the polymer matrix rendering it microbe resistant*.
- Effectively resists spoilage and deterioration by microorganisms*.

HOW DO YOU USE MAPS™ MATRIX-47?

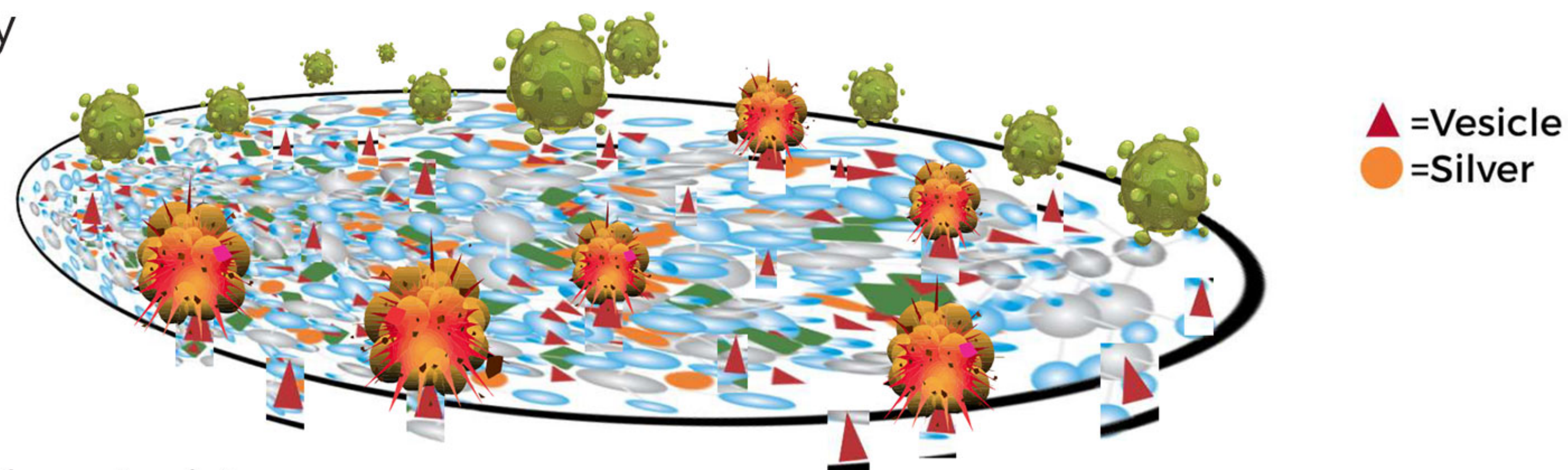
MAPS™ MATRIX-47 is a Ready-To-Use Formulation. No dilution or preparation required. Mix well before use. Clean surface to be treated and be sure the surface is **completely dry** before application. Check for substrate compatibility in a non-conspicuous section prior to use. May be sprayed, misted, or fogged.

ADDITIONAL PRODUCT INFO:

S.M.A.R.T Polymers are proprietary formulations owned and manufactured by SynBionic Évolution Inc. These water-based polymers exhibit very low toxicity. BIO DOME Group is an exclusive distribution partner for MAPS™ MATRIX-47.

HEIQ V-BLOCK TECHNOLOGY IS:

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



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*.

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.



ADDITIONAL INFO

Given the issues that businesses and society at large face today, MAPS-1 and MATRIX-47 offer businesses an effective option which provides broad spectrum kill and a long lasting sealant.

MATRIX 47 has applied the science of the past and enhanced it by adding an EPA approved technology from HeiQ, an award winning, Swiss based innovator in textile protection, specifically V-Block.

MATRIX-47 is an ultrathin, elastic bio-polymer skin that is infused with HeiQ's EPA registered antimicrobial V-Block technology specifically developed for use in the fight against the Pandemic.

MATRIX-47 is a water-based "textile" lattice that functions as a skin that is applied post sanitizing/disinfecting to most hard and soft surfaces. The polymer is hydrophobic and hydrophilic allowing it to dry on cleaned surfaces, dry/sit latent, until moisture comes in contact and reactivates the silver and vesicle technology.

MATRIX-47 OFFERS UP TO 90 DAYS OF PROTECTION POST APPLICATION ON NON HIGH TOUCH AREAS (abraded areas may require more frequent re-application). MATRIX-47 is approved for use under the EPA's "Treated Article Exemption" in all 50 States. In essence, surfaces are treated with MATRIX-47, the skin then protects itself, limiting future contamination.

MAPS-1 is still the sanitizing/disinfecting product that is/has been used prior to MATRIX-47. It is an EPA approved, ready-to-use (RTU), broad spectrum, food surface safe disinfectant. It is very safe and has limited, if any, negative impact to surfaces and environments.



FOOD HANDLING & DINING: Safely cleans and protects food, beverage, and dining facilities from harmful pathogens.

FACILITIES: Keeps work, play, and learning environments clean and safe to use providing your employees and families peace of mind.

HEALTHCARE: Protecting hospitals and healthcare facilities from pathogens and infections.

FOOD SUPPLIES & PUBLIC HEALTH: Helps prevent transmission of pathogens such as E-coli, salmonella, MRSA, listeria and more by integrating with existing cleaning, sanitizing and disinfection protocols.



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Bacteria:

Pseudomonas aeruginosa [Pseudomonas]
 Staphylococcus aureus [Staph]
 Salmonella enterica [Salmonella]
 Acinetobacter baumannii [Acinetobacter]
 Burkholderia cepacia
 Campylobacter jejuni [Campylobacter]
 Corynebacterium ammoniagenes
 Enterobacter aerogenes
 Enterobacter cloacae NDM-1 Enterococcus faecalis [Enterococcus]
 Enterococcus faecalis - Vancomycin resistant [VRE]
 Escherichia coli [E. coli]
 Escherichia coli, New Delhi Metallo-Beta Lactamase (NDM-1)
 ESBL Escherichia coli – [Extended spectrum beta-lactamase producing E. coli]
 Klebsiella pneumoniae [Klebsiella]
 Klebsiella pneumoniae – NDM-1 positive
 Legionella pneumophila
 Listeria monocytogenes [Listeria]
 Salmonella schottmuelleri [Salmonella]
 Salmonella typhi [Salmonella]
 Serratia marcescens Shigella dysenteriae [Shigella]
 Staphylococcus aureus - Community Associated Methicillin-Resistant [CA-MRSA] [NRS384] [USA300]
 Staphylococcus aureus - Community Associated Methicillin-Resistant [CA-MRSA] [NRS123] [USA400]
 Staphylococcus aureus -Methicillin-Resistant [MRSA]
 Staphylococcus aureus -Multi-Drug Resistant [resistant to tetracycline [Tc], penicillin [Pc], streptomycin [Sm] and erythromycin [Em] and susceptible to chloramphenicol [Cm] invitro]
 Staphylococcus aureus - Vancomycin Intermediate Resistant –[VISA]
 Streptococcus pyogenes [Strep] [a cause of scarlet fever]
 Vibrio cholerae

Viruses:

Hepatitis B Virus [HBV]
 Hepatitis C Virus [HCV]
 Herpes Simplex Virus Type 1 [Herpes]
 Herpes Simplex Virus Type 2 [Herpes]
 HIV-1 [the AIDS Virus]
 Human Coronavirus
 Influenza Virus Type A / Brazil [Influenza]
 Influenza Virus Type A / Hong Kong [Influenza]
 2013 Influenza A Virus (H7N9) Respiratory
 Syncytial Virus [RSV] SARS Associated
 Coronavirus [SARS] [cause of Severe Acute Respiratory Syndrome] Vaccinia [Pox Virus]
 Adenovirus Type 5 [Adenovirus]
 Adenovirus Type 7 Norwalk Virus [Feline Calicivirus] [Norovirus]
 Rotavirus

Animal viruses:

Avian Infectious
 Bronchitis Virus
 Avian Influenza virus (H3N2) Avian Influenza virus (H5N1) Canine distemper virus
 Feline calicivirus
 Feline Panleukopenia Virus Murine Norovirus
 Newcastle's Disease virus Pseudorabies virus

Fungi:

Aspergillus niger
 Aspergillus fumigatus
 Trichophyton mentagrophytes [the Athlete's Foot Fungus] [A cause of Ringworm]

- MAPS-1 RTU has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- MAPS-1 RTU has demonstrated effectiveness against viruses similar to SARS-CoV-2, a novel coronavirus, on hard, non-porous surfaces. Therefore, MAPS-1 RTU can be used against SARSCoV-2 when used in accordance with the directions for use against Norovirus on hard, nonporous surfaces.
- Refer to the CDC website for additional information: <https://www.cdc.gov/coronavirus/2019-ncov/index.html>

