

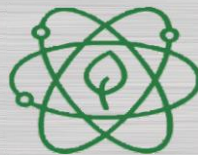


Eco Statics Global Ltd

A new protocol that is revolutionary, persistent, effective and positively disruptive!

Safer for everyone when cleaning and disinfecting all environments.

E-SHIELD™ & E-PACK™



SCIENCE
EMPOWERING
MOTHER NATURE



Our mission

SCIENCE EMPOWERING NATURE?

With a combination of science, natural products (revolutionary persistent solutions) and the latest technological application devices (electrostatic sprayers), we are revolutionising the cleaning process across all industries, whilst ensuring all responsible parties take care of their users and their environments. Currently we are asking Mother Nature to fight against ALL the other chemicals that have been applied to substrates and to remove them first, before they start on the actual problem of bad bacteria, pathogens and odours - the actual reason so many chemicals were applied in the first place. When you think about it - it makes sense!

As one of her greatest advocates we empower, support and preserve Mother Nature's environment to help her get back to basics, and fighting fit naturally!

CHANGING THE WAY YOU CLEAN AND DISINFECT YOUR ENVIRONMENT

The cleaning process used in the modern day is flawed in many ways and, with your help and our support; we are going to change this. The current cleaning and disinfecting process in most environments involve walking into a room with a trigger sprayer, cloths and spray across all surface areas followed by wiping down.

This process can be ineffective, harmful to the user (strong chemicals) and the environment and also incredibly time consuming. There are many reasons why we make this statement - so please contact us to find out why!!

The problems with current basic cleaning processes

Cleaning is about removing the bio-burden on the surface and preventing outbreaks. Lack of knowledge and understanding of chemicals / products that are being used as well as poor application methods make current processes flawed. Cleaners have been educated / taught to spray and wipe almost immediately therefore not understanding if the surface is even dirty or whether the product, they are spraying needs to be left on the surface for a required period of time to comply with EN testing. For example, a product that needs to be on the surface for up to 5 minutes (tested to EN standards) to kill bacteria, is sprayed on and virtually wiped off instantly, meaning that it is an ineffective way of cleaning and disinfecting - they are in most cases also harmful to the user.

*No matter what area of cleaning - **Eco Statics Global** is here to support! **NO MORE SINGLE USE PLASTICS** and use one sprayer with reusable fluid tanks time and time again along with Eco friendly biodegradable fluids...*



As it is currently! Most of our everyday chemicals are harmful to the environment, use 'single use' plastic pots, not compatible to many surfaces, harmful to the user and are used ineffectively. Spraying and wiping down every surface can take a long time due to the manual and ineffective delivery devices, such as trigger sprayers and poor quality cleaning cloths which harbour bacteria, create drips, run and do not hit shadowed or hidden areas.

As it is currently with Eco Statics! ALL our fluids are in concentrate (recycled pouches or 2nd recycled pots) The user adds the contents of the concentrate into the water that is in the sprayer tank so NO single use plastics. All our fluid boxes are recycled and stuck together with vegetable glue and we even use Eco recycled ink!!

Our electrostatics sprayers use 65% less chemical & apply direct to the surface. Our fluids have minimal chemical in; e.g. In a 5L (5000ml) container - Control has 0.08% and Ultra has 0.68%. Daily has NO synthetic chemical in as does our new hand Wash (plant based) and both are 100% biodegradable (unlike washing up liquid!); therefore both are safe to use in the environment, food, animals and humans!

Eco Statics Cleaning and Disinfection System.

Our revolutionary new protocol, **E-Pack™** a complete cleaning and disinfection system, whereby an environment (whole room) can be maintained with ease, effectively cleaning organic matter (the source of outbreaks), killing pathogens and bacteria, and is not harmful to the user or the environment.

The **E-Pack™** system is any combination of our revolutionary electrostatic sprayers, accessories and eco - solutions that 'Empowers Mother Nature', the greatest defence system on the planet!



Eco Statics Cleaning and Disinfection System

E-Pack™



Products from the **E - Pack™** complete cleaning and disinfection system



It allows the fight against bacteria to start on a level playing field, and enables the solution to reach the bad bacteria and organic matter first, whereas before it had to fight through multiple chemical remnants...

Effectiveness Why would you allow a cleaner into a room without them knowing what is on the surfaces or on the walls? We help protect the user, with our electrostatic sprayers and Eco solutions, by spraying the walls and all surfaces with our 'ULTRA' product; we conduct an initial deep clean which kills pathogens.

E-Shield Initial process allows our solutions to be effective against pathogens as it starts to work within 10 seconds and is also persistent, meaning the efficacy of the solution is met and the user is protected before they carry out a physical clean. The cleaner will then post clean using DAILY as it d-structures visible dirt or marks. A further spray could be applied if required if a lot of soiling has been removed although the DAILY product uses the same technology to deep clean the surfaces and delivers / prepares the right surface for 'CONTROL' weekly.

Our products start to work within 10 seconds of attaching to the surface, therefore spot cleaning can be carried out with a cloth whilst the solution is still wet on the surface. We use DAILY for a daily clean, CONTROL for controlling the environment weekly and ULTRA for a monthly / bi decontaminate.

Environment E-Shield is Eco-friendly safe for use and they empower Mother Nature as she does not have to fight against other harmful chemicals first before starting on the day job! E-Shield empowers Mother Nature back to basics by protecting our environment allowing "DAILY, CONTROL & ULTRA" to work on the bio-burden (organic matter) on the surface which is a primary cause of outbreaks.

Time The Victory electrostatic sprayers allow large surface areas to be covered in minutes, using 65% less solution and immensely quicker than a trigger spray. Therefore applying 65% less solution, covering more areas and using less chemicals means we are again empowering Mother Nature to take back control and protect the environment we all work and play in...

'Possession of a pathogen in your space means that you have taken ownership of the risks and liabilities associated with those pathogens on your unhealthy surfaces, walls and environment.

The demands, costs, and personnel required to stay ahead of mobile pathogens without the use of innovative application technologies (sprayers and fluids) makes the expectation and delivery of proper surface cleaning and disinfection unrealistic.'



Revolutionary electrostatic Technology

Electrostatics is the process of adding an electrical charge to the liquid droplets when they are sprayed. When you spray a solution that is properly charged with electrostatics, the solution will envelop the targeted object to provide an even 360 coating, adhering to hidden and shadowed areas, with no runs or drips on vertical surfaces, delivering rapid and effective disinfection to all surfaces and areas.



VP200ES

**Victory Electrostatic
Sprayer - Hand Held**

Features

- Completely portable
- On / Off electrostatic switch
- Double locking tank
- Self-sealing tank
- Trigger lock
- 3-way interchangeable nozzle
- Wrapping effect
- Air intake and cooling vents
- Stainless steel grounding strip
- Quiet operation
- Automatic torch at tip of nozzle
- Hard travel case

Specification

- 3400 mAh Lithium Ion Battery
- (4 hours Spray Time / 1 Hour Charge Time)
- Positive Electrostatic charge
- Micron Sizes 40/80/110
- Flow Rates 82 / 106 / 325 ml / min
- 2 - 4 feet spray range
- 1.7 KG in weight (empty)
- CE marked
- 1 Litre tank capacity
- 8 Bar Pressure



VP300ES

**Victory Electrostatic
Sprayer - Back Pack**

Features

- Completely portable
- Light weight wand
- Self standing unit
- Ergonomic strapping
- Double locking tank
- LED battery lights
- 3 Way nozzle
- Wrapping effect
- Stainless steel grounding strip
- Quiet operation
- Liquid filter
- Durable and flexible chords

Specification

- 3400 mAh Lithium Ion Battery
- (4 hours Spray Time / 1 Hour Charge Time)
- Positive Electrostatic charge
- Micron Sizes 40/80/110
- Flow Rates 106 / 127 / 370 ml / min
- 4 - 7 feet spray range
- 5.5 KG in weight (empty)
- CE Marked
- 8 Litre tank capacity
- 12 Bar pressure

E-Shield™

DAILY

ULTRA

CONTROL

PROTECT

WASH

E-Shield™ Solutions

E-Shield range of Eco-friendly water-based, safe in use cleaning, disinfecting and sanitising solutions have been specifically created to help protect the health and wellbeing of people and animals in any environment and in any industry. All E-Shield solutions are bactericidal, virucidal and fungicidal and exhibit the following key qualities in use: non-corrosive, non-irritant, non-toxic, food safe, safe in use. Below is a summary of our main solutions of which DAILY, ULTRA, CONTROL, PROTECT and WASH have been specifically designed and tested to be sprayed through the Victory electrostatic sprayers. We also supply a laundry detergent and conditioner disinfectant along with a renovator that removes lime-scale that can be used as a bleach replacement.

DAILY It uses the same adjuvant that is in our other products and should be used as the cleaning alternative. Recommended for use as an everyday part of your cleaning routine and for washing clothes. DAILY will set up and maintain the perfect surface for CONTROL to be applied weekly and will not interfere / conflict with each but support the cleaning and disinfection mode of action. DAILY has no kill claims and requires NO PPE and is safe for the user. A revolutionary high-level cleaner for all business and industries with no environmental impact.

ULTRA has been formulated in a reacted mass of peracids to create a highly effective cleaner and disinfectant which removes dirt that harbours mould, fungi and yeast. It kills C-Diff in less than 2 minutes and offers up to 48 hours antimicrobial activity (it carries on working as a persistent solution). It is fragrance free, chlorine free, and degrades / decomposes into safe by-products after use (water and oxygen). It is easy to use with excellent levels of user acceptance with a prolonged antimicrobial effect and excellent materials compatibility.

CONTROL has been formulated to clean and disinfect using only 0.08% of chemical in a 5-litre bottle, and offers high levels of antimicrobial activity as it carries on working as a persistent solution. In concentrate format it is green in colour, fragrance free, chlorine free, alcohol free and provides excellent levels of user acceptance with prolonged antimicrobial effect, with excellent material compatibility and empowering Mother Nature. CONTROL carries on working on the air in your environment as it passes over removing harmful VOC's.

PROTECT is water based, alcohol free and simultaneously sanitises and moisturises the skin. It is non-flammable, alcohol free, cost effective and easy to use with excellent levels of user acceptance and prolonged antimicrobial effect for up to 2 - 4 hours after application, whilst protecting and enhancing your own hands self defence system unlike alcohol which strips it away and leaves it unprotected. It conforms to EN 1500 and is an antiseptic so can be applied to cuts and grazes.

WASH Plant derived 100% biodegradable hand & body wash! 2 hour protection, no synthetic chemicals, non irritating & protects skin structure.

The E-Shield Environment and why..!



What is the E-Shield Eco Environment and why should we adopt it..?

In the **red** image is the usual standard of cleaning areas.

In the **green** image **E-Shield** area of cleaning you can see that we cover the whole room creating an Eco environment, which is achieved by using our electrostatic sprayers and our persistent fluids!



We create a healthy clean environment by using our electrostatic sprayers and our persistent eco fluids by eliminating the bio-burden (organic matter) on the surface.

Creating this hostile environment for pathogens (safe for humans and animals) it reduces the cleaning time and protects us against outbreaks because of the environment that is created. By not using harmful chemicals and cross contaminating with cloths and immediate wiping we also cut down on the transmission potential of wiping from one area to another.

We endorse wiping away stains and heavy soiling where you see it and because DAILY, CONTROL and ULTRA breaks down the bio-burden by creating a 'Teflon' (non stick) type surface where the pathogens cannot stick to replicate or grow, it makes cleaning far easier and safer and as our fluids start to work with 10 seconds you can wipe before the fluids dry on the surface still knowing that you have a protective barrier protecting your environment!

E-SHIELD –

creates a **HOSTILE, TENSIVE SURFACE ENVIRONMENT** for **ALL** pathogens.

The bacteria **CANNOT STICK** to the surface and therefore does **NOT ALLOW** it to **GROW** and **REPLICATE** on the substrate which **STRESSES** it out and it then **DIES!**

Applied by our **VICTORY** sprayers it adds a positive **MICROSCOPIC CATIONIC ELECTRICAL CHARGE** into the already charged fluid making it incredibly **POTENT.**

The new **UNTENABLE** surface **RESULTS** in **DEATH** for all **BACTERIA** and uses **65% LESS FLUID!**

How **E-Shield** WILL change the way you clean and disinfect?

Safety and Environment



From this...

Hazardous and corrosive cleaning and disinfecting chemicals.

TO THIS...

No Chlorine, No Odour, No Bleach, No Alcohol, No Solvents, Non-Flammable, Non-Hazardous and Non-Corrosive.

Persistent Eco-Friendly fluids which protect the user and **EMPOWER MOTHER NATURE** in the ENVIRONMENT.



Product Consolidation



From this...

Trigger sprays, plastic bottles and multiple hazardous cleaning and disinfecting chemicals.

TO THIS...

The world's first and only portable, battery operated hand held electrostatic sprayer with Eco-friendly fluids. Combined they make a complete cleaning and disinfection system providing 3-D wrapping and liquid adhesion to the surface



Time Management and Chemical Usage



From this...

Time consuming trigger sprayers and cloths that increase the risk of cross contamination.

1 litre covers 36m² in 11 mins 41 seconds

TO THIS...

Using 65% less fluid or covers 300% more area using the same amount of fluid with no drips and ensures liquid adhesion to the surface with correct dwell times.

1 litre of our fluid covers 150m² in 10mins 20 seconds



Performance



From this...

Non persistent chemicals in single use plastic bottles which require continual use and stops working once dry! Can increase surface bio-burden due to the harsh chemicals and the lack of surface cleanliness.

TO THIS...

PERSISTENT eco-friendly cleaning & disinfection fluids, which start to work within 10 seconds due to the cationic (positive) charge in the fluids and from the sprayer

Spray and walk away!



Coverage over 150m²



From this...

4 x 750ml trigger sprayers required to cover 150m²

TO THIS...

One litre of our eco-friendly fluid covers 150m² - 175m² and sprays around 1 meter in distance.



8 Litre Backpack option also available

Environmentally Friendly Packaging



From this...

Multiple use of single use plastics killing the environment and the planet!

TO THIS...

Secondary recyclable ampule bottles, delivered in recyclable cardboard, sealed with vegetable glue and printed with recyclable ink...



Eco Statics Global Ltd

The Eco Statics **PROTOCOL**



1. Choose either the **VP200ES** or the **VP300ES** depending on your environment and the area to spray.
2. Spray the area with **ULTRA** (initial deep clean or treatment / outbreak).
3. Spray **DAILY** ever day on all surfaces and substrates.
4. Spray **CONTROL** on a weekly basis to maintain the environment.
5. Use **WASH** to wash your hands and **PROTECT** to disinfect your hands.

WHY?

You / we are creating an ECO environment where no other chemicals are used and the environment is maintained, whilst 'Mother Nature' does her job with our support!

1. Spray **ULTRA** (kills C - Diff within 2 minutes) every month or bi-monthly for a deep clean and ground zero effect.
2. Spray **CONTROL** daily or weekly and it will prevent outbreaks as **CONTROL** kills C - Diff in 60 minutes as it is a persistent solution and does not require an instant kill.
3. If **CONTROL** is used daily it will provide the ultimate protection for your environment with a monthly application of **ULTRA**.
4. For a **DAILY** clean and a completely safe and biodegradable cleaner then this is a fantastic replacement or alternative to using chlorine tablets / HOCL this is your product. Just spray and it will attack organic matter, break it down safely and creates the perfect base for our persistent solutions of **CONTROL** and **ULTRA**.
5. Weekly spray with **CONTROL** (a persistent solution) to all areas, which include, walls carpets, surfaces and more. As this product continues to work for 4 weeks (white paper on killing MRSA on the walls). It continues to clean the environment you work and live in by removing harmful VOC's in the air.
6. For spillages and soiling use **ULTRA** first as it will kill the pathogens within the spillage or soiling, thus rendering it harmless to be removed and clean it up with **DAILY**.
7. **WASH** has been developed from plants and is 100% biodegradable and is the only hand / body wash that provides 2 hours protection from just washing your hands in the normal way and **WASH** is NOT an irritant!
8. Utilise **PROTECT** hand sanitiser as it will disinfect your hands for up to 4 hours.
9. Keep the environment tidy and spot clean stains as you spray with a quality microfiber cloth or our wipes whilst the fluid is still moist on the surface / substrate.

Once you start with Eco you must maintain the environment which means you MUST NOT introduce or use other chemicals in your new environment.

How to spray an area / room

1. Start from the furthest point from the door and spray left to right, top to bottom
2. Spray along the wall and the ceiling.
3. Spray the air as you walk backwards to remove any VOC's from the air.
4. Spray all objects along the way covering all substrates and the floor.
5. Ensure you cover all touch points .
6. Remove any soiling with a microfiber or our Eco biodegradable and maceratable wet wipes. 7. Do not forget to spray the door and the handle as you leave.

How does **DAILY** actually clean?

DAILY is a daily cleaning solution that eats through organic matter and dirt. It is to be used daily as part of your cleaning protocol and has been designed and developed to break down oils, lipids, dried body fluids and organic matter by using the **same adjuvent** that is in all our products. Just as the same way Ultra and Control kill bacteria, Daily breaks them down and can be wiped if physical removal of heavily soiled surfaces is required.

We have tested Daily but, as it is just used as a cleaning detergent we do not sell it with any kill claims and we recommend that it is used every day in all environments as it is safer and far more effective than other cleaning chemicals.

It is also far safer for the person spraying and cleaning the substrate and protecting the internal environment by spraying our E-Shield range through our sprayers and ensuring the perfect base for CONTROL.

- **NO Bioaccumulation**
- **Test data by independent GLP, GMP and ISO laboratories**
- **Non-toxic, free from phosphates, parabens and preservatives.**
- **No VOC's and cleans at pH neutral**

DAILY is a total rapid biodegradable cleaner with NO Bioaccumulation in the environment or on surfaces, which means NO environmental impact on Mother Nature. DAILY can be used with Organic and Non-organic substrates. It has No VOC's, cleans at pH neutral breaking down oils, lipids, dried body fluids and organic matter.

It is smear and streak free, Non - hazardous & completely Non - toxic along with being free from phosphates, parabens and preservatives. Daily originates from renewable sustainable organic sources (supporting test data). Global SDS show zero risks to skin, inhalation and eyes (Substantiated and produced by Global chemical lawyers) and requires NO PPE.

Test data by independent GLP, GMP and ISO laboratories, ensuring the perfect base for CONTROL and ULTRA.

To understand cleaning you need to understand what cleaning really is?

Using **DAILY** and all our other fluids through our sprayers you will spray up 300% more area (or use 65% less fluid than you are currently using). By using **DAILY** on a daily basis you will maintain the surface persistence and the ongoing persistence of our other fluids. **DAILY** also protects the user (cleaner) as it is safe to use in all environments. For heavily soiled (stains) areas just wipe away and re spray if required.



Eco Statics Cleaning & Disinfection System

E-Shield™
and
E-Pack™



How does **ULTRA** affect microbes?

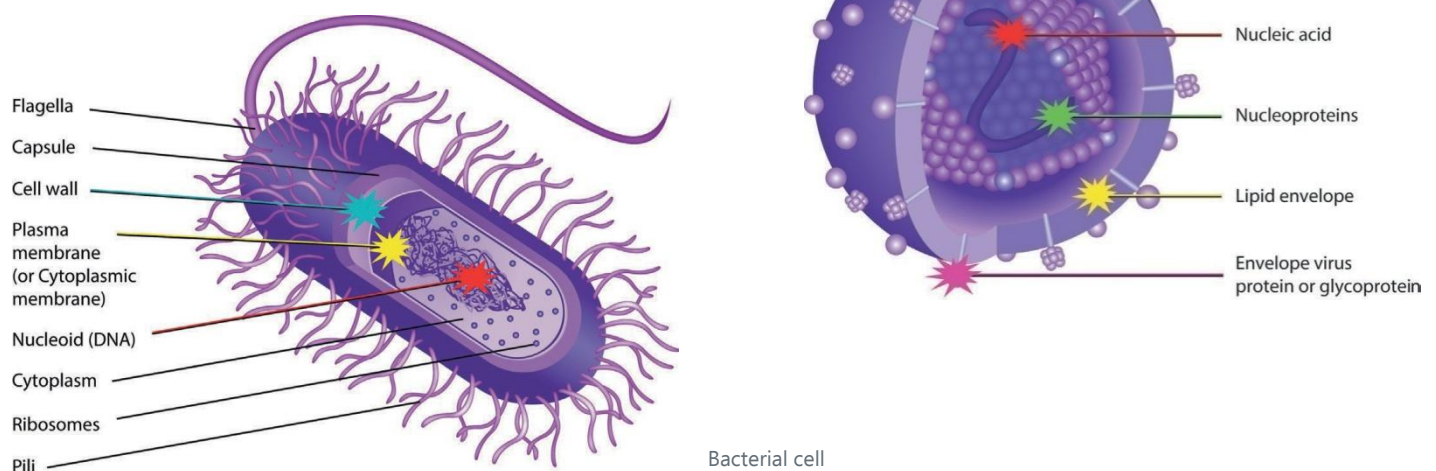
ULTRA is an ultra-high level, broad spectrum disinfectant which is effective against all microbial classes up to and including bacterial spores (see the E-Shield Overview table for a summary of its antimicrobial efficacy). ULTRA has been developed for very high-level disinfection of all hard and soft surfaces, environments, equipment and air. It is the hydroxyl free radicals produced by ULTRA which are responsible for its potent antimicrobial activity (see Figure 1). Hydroxyl free radicals have multiple points of action on microbes which include: -

- Attacking membrane lipids
- Breaking apart nucleic acids (DNA and RNA)
- Denaturing proteins
- Disrupting cell wall permeability
- Oxidation of sulfhydryl and sulphur bonds in proteins, enzymes and other metabolites

Proteins, lipids and nucleic acids are essential components of bacteria, viruses, fungi and bacterial spores. Significant damage to one or more of these components is fatal for the microbe.

The destructive nature of hydroxyl free radicals coupled with multiple points of action result in ULTRA having a lethal effect on microbes within seconds / minutes of initial contact.

Figure 1. Schematic diagram highlighting the key bacterial and viral structures affected by ULTRA



How does **CONTROL** affect microbes?



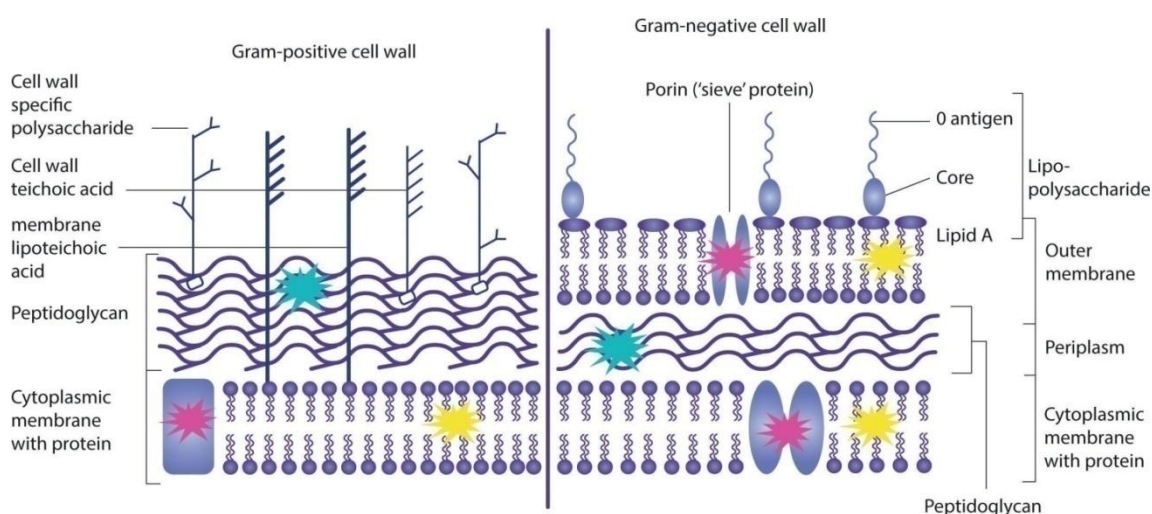
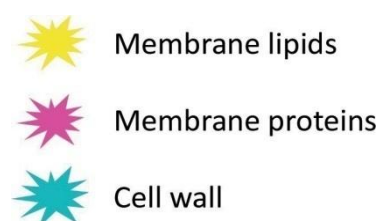
CONTROL is a high level, broad spectrum disinfectant cleaner which is effective against all microbial classes up to and including bacterial spores (see the E-Shield Overview table for a summary of its antimicrobial efficacy). **CONTROL** has been developed as a combined high-level disinfectant / cleaner for all hard and soft surfaces, environments, equipment and air. **CONTROL** is a powerful lytic agent which is based on the quaternary ammonium compounds benzalkonium chloride and didecyldimethyl ammonium chloride. Quaternary ammonium compounds have multiple affects and points of action within the microbe include: -

- Inactivation of energy-producing enzymes
- Denaturation of essential microbial proteins
- Physical disruption of membrane lipids
- Bacterial cell walls

Proteins and lipids are essential components of bacteria, viruses, fungi and bacterial spores. Significant damage to these key microbial components is often fatal for the organism. **CONTROL** causes rapid and significant changes at multiple sites within the microbe. The magnitude of this affect is so great that it is typically lethal to the microbe within minutes of contact.

Bio-film - Control works by breaking down the EPS (glue / matrix which acts as the protective diffusion barrier around bacteria). Typically a polymeric conglomeration of extracellular polysaccharides, proteins, lipids and DNA. Therefore we enable penetration of the bio-film on the bacterium killing aerobic and anaerobic bacteria within the bio-film colonies.

Figure 2. Schematic diagram highlighting the key bacterial structures affected by **CONTROL**





How does **PROTECT** affect microbes?

PROTECT has been developed as a skin sanitiser for use in situations where skin and hand hygiene are of paramount importance. It is a disinfectant / antiseptic and offers safe, effective, user friendly skin cleansing, disinfection and sanitation with high levels of antimicrobial efficacy, as summarised in the E-Shield Overview table.

PROTECT is a strong lytic agent based upon the quaternary ammonium compound benzalkonium chloride. Quaternary ammonium compounds have multiple affects and points of action within the microbe (see Figure 3) which include: -

- Inactivation of energy-producing enzymes
- Denaturation of essential microbial proteins
- Physical disruption of membrane lipids
- Bacterial cell walls

Proteins and lipids are essential components of bacteria, viruses, and fungi and if significant damage to these key microbial components is completed it is fatal for the organism. PROTECT causes rapid and significant changes at multiple sites within the microbe. The magnitude of this affect is so great that it is typically lethal to the microbe within minutes of contact.

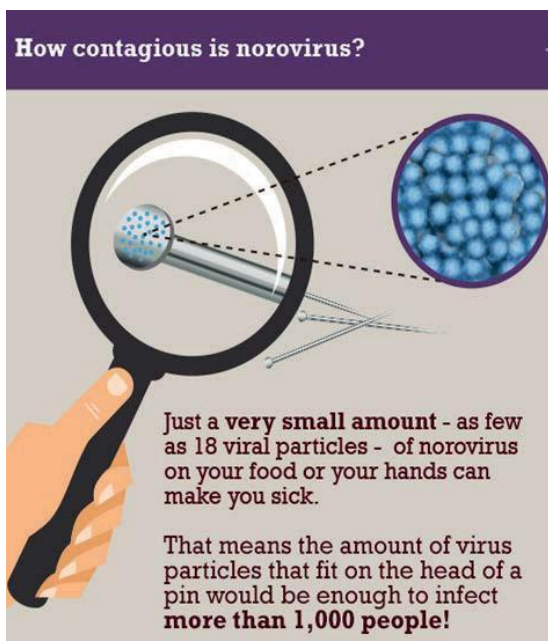
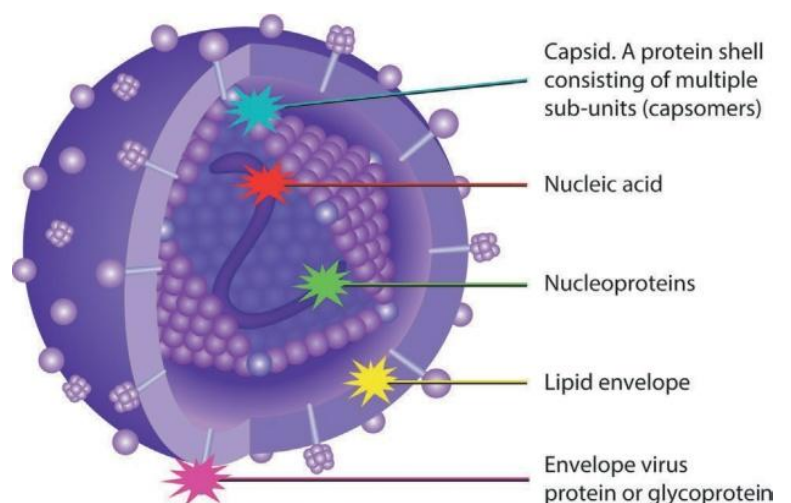


Figure 3.
Schematic diagram highlighting the key viral structures affected by PROTECT



WASH

How does WASH affect hand cleaning?

WASH – is plant derived and has been very carefully selected, mixed and put together to be a 100% biodegradable hand and body wash!

The **ONLY** hand-wash foam providing **two (2) hours protection!**

Outstanding micellar self-thickening rich, fine-pored foam

Eco certificate registration pending and high biological degradability (100%)

Environmentally friendly (100%) and naturally derived raw materials

Sanitises the hands providing germ removal.

NO synthetic chemicals

NO fragrances

NO solvents

NO sulphates

NO polymers

NOT an irritant hand wash

FREE from all other preservatives

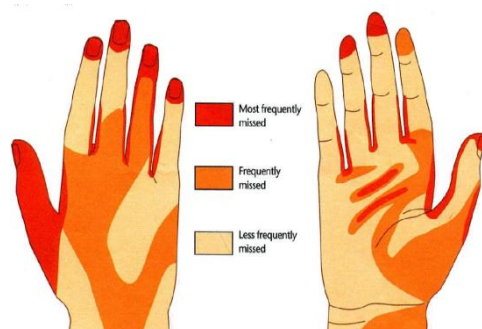


A complete and safe hand wash that is 100% planet friendly

A hand and body wash that protects and works with your skin's cell structure moisturising and protecting it every wash.

We have developed a synergistic blend of natural products providing fantastic cleaning ability at an epidermis level using advanced natural plant formulas that enable all the raw materials to talk and work with each other.

Works '**Hand in Hand**' with **Protect** for all round protection supporting your hands defence system safely creating a complete hand sanitising system!



Routine	DAILY	ULTRA	CONTROL	PROTECT	WASH
Daily	✓	✓	✓	✓	✓
Weekly			✓		
Monthly		✓	✓		
Bi-Monthly		✓			
Specifics					
Spillage	✓	✓	✓		
Soiling	✓	✓	✓		
Deep Clean		✓			
Outbreak		✓		✓	✓



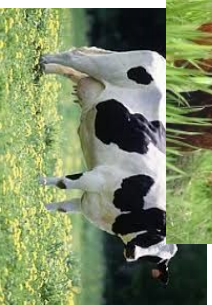
Daily



Control



Ultra



Animal
Husbandry



Daily



Laundry



Biodegradable Wipes



Hand Wash



Hand Protect



Biodegradable Wipes



Eco Statics
Global Ltd

Keys

- Daily
- Control
- Ultra
- Hand Protect
- Hand Wash
- Biodegradable Wipes



Electrostatic
VP200ES



Electrostatic
VP300ES

Environment, Surfaces & Air

All types of
Surfaces



Daily



Control



Ultra

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