



Clorox® Total 360® System

SUPERIOR COVERAGE. TRUSTED SOLUTIONS.



Superior Coverage with Trusted Clorox® Solutions

Clorox is proud to offer the first system that pairs an electrostatic sprayer with a portfolio of Clorox® disinfectants and sanitizers. Electrostatic technology enables superior coverage of Clorox® trusted solutions in hard-to-reach places — the side, underside and backside of surfaces. Using the Clorox® Total 360® Electrostatic Sprayer to apply Clorox® Total 360® Disinfectant Cleaner₄ and Clorox® Anywhere® Hard Surface Sanitizing Spray gives you a healthier facility.



The Clorox® Total 360® System provides up to:

TIME EFFICIENCY

4X

FASTER*

SUPERIOR COVERAGE

18,000

FT²/HOUR

COST SAVINGS

65%

LESS SOLUTION*

Today, illness and infection have larger impacts than ever before:

\$1,685/employee —

Average annual cost of illness to employers

\$400,000 —

Cost to a major university to combat a Norovirus outbreak

\$14,000 —

Direct cost of hospitalization alone due to a MRSA infection



Businesses

Illness and infection impact where you work.



Schools

Illness and infection impact where you learn.



Athletic Facilities

Illness and infection impact where you play.

(Source: http://journals.lww.com/joem/Abstract/2003/12000/Lost_Productive_Work_Time_Costs_From_Health4.aspx)

(Source: <http://www.foodpoisoningnews.com/rochester-norovirus-costs-30000-osu-outbreak-over/>)

(Source: <http://www.hcup-us.ahrq.gov/reports/statbriefs/sb35.jsp>)

* Compared to a trigger sprayer



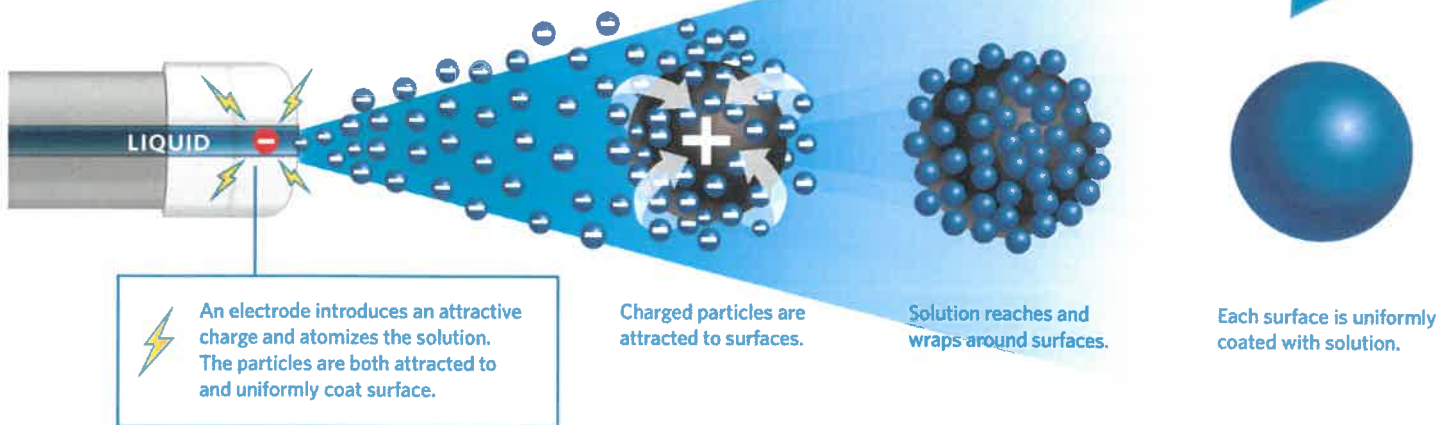
Electrostatic Technology

The Clorox® Total 360® System has proven electrostatic sprayer technology with wraparound coverage.

Electrostatic technology enables Clorox® sanitizers and disinfectants to reach the side, underside and backside of surfaces.

Uses an air compressor for quiet, powerful liquid flow

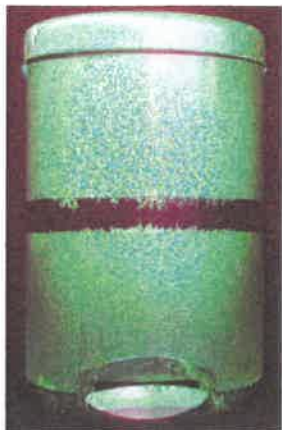
FORCE STRONGER THAN GRAVITY



Superior Clorox® Total 360® Coverage

REPRODUCIBLE STATIC TEST

Superior coverage demonstrated on an everyday trash can. The trash can was wrapped in tape around the center. After spraying from the front of the trash can and removing the tape, one can see that the Clorox® Total 360® System's electrostatic technology enables superior coverage not only on the front, but also the side and back of the object.



Front



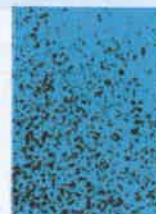
Side



Back

CLOSE-UP OF SURFACE COVERAGE

The blue regions represent the spray coverage within the highlighted area on the back of each trash can.



Back



Workflow Efficiency

The Clorox® Total 360® System provides an efficient workflow experience and superior coverage.

READY-TO-USE



Solutions are premixed and specially formulated to easily hook up to the sprayer for use.



USAGE



Covers 9000 square feet.
1 Gallon = 30 minutes of continuous spray.



Safety Profile

The Clorox® Total 360® System provides guidelines based on testing of both the electrostatic sprayer and the solutions together.



OSHA guidance requires that the employer ensure proper worker safety.

Electrostatic Solution Guidelines



Use of fully enclosed eyewear protection, such as goggles, is recommended when using the Clorox® Total 360® Electrostatic Sprayer.

For Clorox® Total 360® Disinfectant Cleaner₄: Wear NIOSH/OSHA approved respiratory protection when using through the Clorox® Total 360® Electrostatic Sprayer: N95 respirator.

Electrostatic Sprayer Safety



Unit is grounded via plug.

The Clorox® Total 360® System meets Underwriter Laboratories' published and nationally recognized Standards for Safety.

Use products as directed. Consult products' label or manual for complete safety information.



Efficacy Solutions

Only solutions tested to Clorox® standards have been approved for use with the Clorox® Total 360® System.

Clorox® Total 360® Disinfectant Cleaner₄

4/128 oz. (Gallon) UPC: 31650

When sprayed through the Clorox® Total 360® Electrostatic Sprayer, Clorox® Total 360® Disinfectant Cleaner₄ is effective against:



Clorox® Anywhere® Hard Surface Sanitizing Spray

4/128 oz. (Gallon) UPC: 31651

When sprayed through the Clorox® Total 360® Electrostatic Sprayer, Clorox® Anywhere® is effective against the following bacteria:



EFFECTIVE ON HARD SURFACES	Kill Time
Bacteria	
<i>Pseudomonas aeruginosa</i>	2 min
<i>Salmonella enterica</i>	2 min
<i>Staphylococcus aureus</i>	2 min
Methicillin Resistant <i>Staphylococcus aureus</i>	2 min
Vancomycin Resistant <i>Enterococcus faecium</i>	2 min
Multi-Drug Resistant <i>Acinetobacter baumannii</i>	2 min
Extended Spectrum Beta-Lactamase <i>Escherichia coli</i>	2 min
<i>Klebsiella pneumoniae</i> New Delhi Metallo-Beta Lactamase	2 min
Viruses	
Human Immunodeficiency Virus Type-1	30 sec
Avian Influenza Virus	30 sec
Human Rotavirus	1 min
Hepatitis B Virus	1 min
Hepatitis C Virus	1 min
Duck Hepatitis B Virus	1 min
Bovine Viral Diarrhea Virus	1 min
Norovirus	2 min
Canine Parvovirus	2 min
Rhinovirus Type 14	2 min
Rhinovirus Type 39	2 min
Mildew	
<i>Aspergillus niger</i>	10 min

The Clorox® Total 360® Disinfectant Cleaner₄ kills 99.9% of bacteria on soft surfaces.

SANITIZATION NON-FOOD CONTACT SURFACES †	Kill Time
<i>Escherichia coli</i>	1 min
<i>Klebsiella pneumoniae</i>	1 min
<i>Proteus mirabilis</i>	1 min
<i>Salmonella</i> (tested as <i>Salmonella choleraesuis</i>)	1 min
<i>Staphylococcus aureus</i>	1 min
<i>Streptococcus pneumoniae</i>	1 min
SANITIZATION FOOD CONTACT SURFACES ‡	
<i>Escherichia coli</i>	2 min
<i>Salmonella typhi</i>	2 min

† Kills 99.9% of bacteria ‡ Kills 99.999% of bacteria

The Clorox® Anywhere® Hard Surface Sanitizing Spray is NSF listed.



Clorox® Total 360® Electrostatic Sprayer

1 Unit. UPC: 60010





VICTORY
INNOVATIONS CO

Distributed by:

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*Ideal for Disinfecting, Sanitizing,
Odor Removal, Decontamination,
Pesticides/Fertilizing, and More!*

PROFESSIONAL CORDLESS ELECTROSTATIC BACKPACK SPRAYER



SAVES TIME



SAVES MONEY



**PROVIDES BETTER
COVERAGE**

FC ETL CE RoHS NOM

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VP300ES



VICTORY
INNOVATIONS CO

VP300ES

PORTABILITY:
EASY CARRY HANDLE

2.25 GALLON EASY FILL
TANK

VERSATILITY:
ADJUSTABLE 3-IN-1
NOZZLE



COMFORTABLE
CARRYING STRAPS

ERGONOMIC
HANDLE WITH LOCK
FOR COMFORT AND
SAFETY

INCREASED DURABILITY:
GLASS-FILLED HOUSING

QUICK RELEASE
VALVE

LONG LASTING BATTERY VP20A
(4 hr. Run Time)

4 FT HOSE



PROFESSIONAL CORDLESS ELECTROSTATIC BACKPACK SPRAYER

PRODUCT SPECIFICATIONS

Model #	VP300ES	Weight (No Chemical)	10 lbs.
Power	Cordless	Weight (Full)	28.8 lbs.
Tank Size	2.25 gallons / 8.52 L	Optimum Spray Range	4 - 6 ft.

	NOZZLE SETTING 1	NOZZLE SETTING 2	NOZZLE SETTING 3
Nozzle Shape	Full Cone	Full Cone	120° Fan
Particle Size	40 microns	80 microns	110 microns
Flow Rate	3.4 ounce/min	5.1 ounce/min	13.4 ounce/min
Run Time per Tank	84 min	56.5 min	21.8 min
Coverage per Tank*	23,000 sq ft	20,600 sq ft	13,100 sq ft
Tanks per Charge	2.9	4.2	11

**Per internal testing determined by flow rate and particle size*

ACCESSORIES:



VP72 / VP74
Extension Wand -
12" or 24"



VP31 2.25 Gallon
Tank with Cap



VP49 Nozzle
Wrench



VP50 3-in-1
Nozzle



VP20B 16.8V
6800mAh Battery
(8hr. run time)



VP10 16.8V
Battery Charger



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PROFESSIONAL CORDLESS ELECTROSTATIC HANDHELD SPRAYER



SAVES TIME



SAVES MONEY



PROVIDES BETTER
COVERAGE

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VP200ESK



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VP200ESK

BETTER VISIBILITY:
LED HEAD LIGHT

INCREASED DURABILITY:
GLASS-FILLED HOUSING



ERGONOMIC
HANDLE WITH LOCK
FOR COMFORT AND
SAFETY

VERSATILITY:
ADJUSTABLE 3-IN-1
NOZZLE

LONG LASTING BATTERY VP20
(4 hr. Run Time)

DOUBLE CHARGE
TECHNOLOGY FOR
MAXIMUM COVERAGE

1 LITER EASY
FILL TANK

HEAVY DUTY
KIT BOX



PROFESSIONAL CORDLESS ELECTROSTATIC HANDHELD SPRAYER

PRODUCT SPECIFICATIONS

Model #	VP200ESK	Weight (No Chemical)	3.8 lbs.
Power	Cordless	Weight (Full)	5.9 lbs.
Tank Size	33.8 ounces / 1 L	Optimum Spray Range	2-3 ft.

	NOZZLE SETTING 1	NOZZLE SETTING 2	NOZZLE SETTING 3
Nozzle Shape	Full Cone	Full Cone	120° Fan
Particle Size	40 microns	80 microns	110 microns
Flow Rate	3.1 ounce/min	3.8 ounce/min	10.5 ounce/min
Run Time per Tank	11.3 min	9.3 min	3.33 min
Coverage per Tank*	2,800 sq ft	2,550 sq ft	1,700 sq ft
Tanks per Charge	21.2	25.8	72.1

*Per internal testing determined by flow rate and particle size

ACCESSORIES:



VP72 / VP74
Extension Wand -
12" or 24"



VP30 33.8oz
Tank with Cap



VP49 Nozzle
Wrench



VP50 3-in-1
Nozzle



VP20B 16.8V
6800mAh Battery
(8 hr. run time)



VP91 Carry
Strap

FC (E) CE (S) RoHS NOM

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VP200ESK



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**One Part, Stable, Chlorine Dioxide
Disinfectant Sanitizer**

VitalOxide is an EPA registered disinfectant cleaner, mold killer and super effective odor eliminator. Ready to use with no mixing required, just spray, wipe or fog right from the bottle. Non-irritating to the skin and non-corrosive to treated articles.

VitalOxide - One Product, So Many Solutions

- ✓ **Eliminates SARS-CoV (COVID-19)**
Listed on US EPA List N: Disinfectants for use against SARS-Cov-2, the cause of COVID-19
- ✓ **Food Contact Sanitizer - NSF Registered (D2) Sanitizer**
VitalOxide kills 99.999% of bacteria, including eColi, Salmonella and Listeria in less than 60 seconds, and it's odorless, requires no rinse and doesn't alter the taste of food that has been prepared on sanitized surfaces. (D2)
- ✓ **EPA Registered Disinfectant**
Contains no volatile organic compounds (VOCs) and kills a wide range of viruses such as Noro Virus, Feline and Canine coronavirus and bacteria. It doesn't contribute to mutating super bugs.
- ✓ **Mold and Mildew Inhibitor**
Inhibits and keeps mold and mildew from growing for up to 4 weeks.
- ✓ **Allergen Eliminator**
Proven effective on pet dander, as well as, dust mite and cockroach allergens. Safe to use on pet bedding and sleeping areas.
- ✓ **Odor Eliminator**
Eliminates malodors due to smoke, trash, septic systems, stale cooking and more, without using masking agents or fragrances. Neutralizes urine and fecal odors.
- ✓ **HVAC and Air Ducts**
Leaves HVAC systems and air ducts free of microbial contamination from bacteria, mold, mildew and other fungi, while ensuring air quality.
- ✓ **Soft Surface Sanitizer**
Kills odors and odor causing bacteria on soft surfaces by eliminating the source. Great for upholstery, curtains and auto interiors.



**FOR USE
AGAINST
SARS-COV-2
(COVID-19)**

**Available in 4x1-gal.,
6x1-qt., 15-gallon or
55-gallon**

Buy Bulk For Cost Savings

Ask your Hotsy Distributor how you can arrange to have VitalOxide supplied on a regular monthly schedule. We deliver...it's convenient, dependable and efficient.

SAVE TIME, by having a regular monthly service call!

SAVE MONEY with our low bulk rates!

SAVE the **INCONVENIENCE** of disposing of empty 55-gallon drums.

VitalOxide Is Proven To Work On All Surfaces!

WORKS GREAT IN A WIDE VARIETY OF APPLICATIONS

PUBLIC USES / MISC.:

- Sports Gear
- Barber Shops / Hair Salons
- Buses, Trains & Planes
- Laboratories
- Restaurants
- Boats / Ships

HEALTH CARE:

- Nursing Homes
- Physical Therapy Facilities
- Offices / Waiting Rooms
- Pharmacies
- Ambulances

FOOD PROCESSING:

- Refrigerated Storage Units
- Food Transport Trucks

EDUCATION:

- Schools & Daycare Facilities
- Gyms & Locker Rooms
- Cafeteria Tables
- Sports Equipment

DAIRY:

- Parlor Walls, Gates & Floors
- Milking Parlor Equipment
- Robotic Feeders
- Calf Grain Troughs
- Calf Bottles, Nipples & Buckets
- Animal Pens
- Calf Hutches

POULTRY:

- Poultry Houses
- Egg Processing Premises
- Hatcheries
- Poultry Processing Plants
- Federally Inspected Meat Plants

VETERINARY:

- Animal Kennels
- Animal Transport Vehicles
- Examination Rooms / Equipment



Available in the following sizes:

PART NO	DESCRIPTION
8.639-558.0	VitalOxide 4 X 1-GAL (US Only)
8.639-560.0	VitalOxide 6 X 1-QT (US Only)
8.642-823.0	VitalOxide 15 Gallons (US Only)
8.698-112.0	VitalOxide 55 Gallons (US Only)

Product Details

One part stable Chlorine Dioxide Formula

- Very effective
- Stable 2-year shelf life
- No mixing

EPA Category 4 - low toxicity

- Safe for animals and humans
- No smell formula
- No Personal protective equipment required

5 Log Kill

- Staph
- Streph
- Ecoli
- Salmonella
- Listeria
- MRSA
- Tuberculosis

Eliminates Viruses

- SARS-CoV-2, the cause of COVID-19
- Parvo
- Distemper
- Kennel Cough
- Canine coronavirus
- Feline coronavirus

Foam Capability

- Fast application, dwell time
- Reduce water and product usage

- NSF registered (D2) sanitizer
- Hypo allergenic
- USEPA registered No. 82972-1 in all 50 states & Puerto Rico
- pH balanced at 8.5
- Shelf stable - over 2 year shelf life
- No special shipping or handling
- Odorless
- Non-corrosive - carpet, fabric, natural stone, plastic safe
- Non-irritating to skin
- As OSHA / WHMIS / GMS compliant Safety Data Sheet is available from Hotsy



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HOT_VitalOxUS Effective 03/20

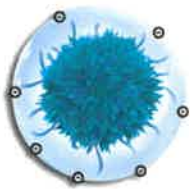
Specifications & product descriptions subject to change without notice.
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How Does BacShield Technology Work?

BacShield® Broad Spectrum Antimicrobial Activity

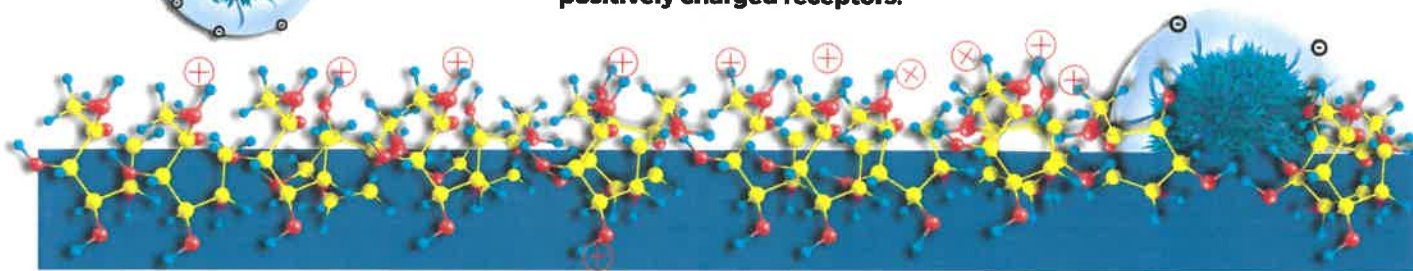
All living cells are more Negative on the outside than on the inside, with Negatively Charged Anions balanced across the Cell Membranes.



The Positively Charged Cationic Chitosan in BacShield are drawn to the intracellular fluid by Electrical Force, or Electrostatic Pressure.

85% to 90% of the BacShield Polymer consists of positively charged receptors.

Positively charged receptors effectively DISRUPT the cell walls of Microbes and Electrocutes them causing immediate death.



ELECTROSTATIC PRESSURE + ELECTRIFICATION

All living cells are more Negative on the outside than on the inside, with Negatively Charged Anions balanced across the cell membranes.

The Positively Charged, Cationic Chitosan in BacShield are drawn to the intracellular fluid by Electrical Force, or Electrostatic Pressure.

Positively charged receptors effectively DISRUPT the cell walls of Microbes and Electrocutes them causing immediate death.

ELECTROSTATICALLY ATTACHES & CLINGS TO SURFACES

- Easy, Versatile Application
- Porous + Non Porous Surfaces
- Indoor + Outdoor Applications
- Hardy, Residual Broad Spectrum Antimicrobial Film

CATIONIC BACSHIELD BIOFILM MECHANICALLY KILLS + ELECTROCUTES

- BacShield 's Chitosan Polymer Chain Structure contains 85% to 90% Positive Electrical Charges for Mechanical Microbe Cell Wall Destruction.

BACSHIELDS TECNOLOGY DUAL MICROBE DESTRUCTION MECHANISM

- Anionic Microbe Cell Membrane Disrupted by Cationic Chitosan.
- Studies validate the inhibition of RNA & protein synthesis by permeation in the cell nucleus.

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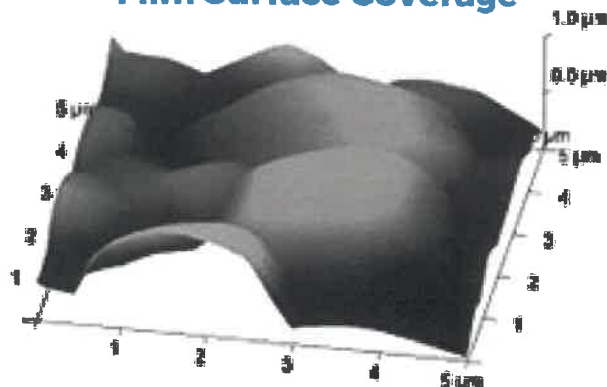


BacShield's Chitosan Film Surface Coverage

SEM Micrograph of Chitosan Composite Film Surface Coverage



AFM Images of Chitosan Composite Film Surface Coverage



The BacShield Film is an extremely dense and tightly woven Fabric of Polymer Chains consisting mostly Positively Charged Receptors for Complete Coverage.

Cardenas, Galo & Anaya, Paola & del Rio, Rodrigo & Schrebler, R. & Von Plessing, Carlos & Schneider, Mark. (2010). Scanning electron microscopy and atomic force microscopy of chitosan composite films. *Journal of the Chilean Chemical Society*. 55. 352-354.

WHY BACSHIELD?

COMPETING PRODUCTS ON THE MARKET CONTAIN SILICA WHICH IS CLASSIFIED AS A HUMAN LUNG CARCINOGEN. BACSHIELD CONTAINS NO SILICA AND IS 100% NON-TOXIC AND NATURAL.

BacShield has a coverage rate of **6k to 9k ft²**. This is **2x to 3x** the coverage rate of competing products.

The most effective component of BacShield and competing products that kill all the "Bad Stuff" is an electrical charge. Most competitive products in the market today have an 18-link carbon chain with on (1) positive charge. Therefore, they are 5% to 6% of the total chain. BacShield is charged at 85% to 90% of the total chain, **17x to 18x** more charged than the competing silica products.

Products containing Silica and certain other active ingredients create a covalent bond. This type of bond will lead to a build up of surface layers where dirt gets caught in-between making the surface look dirty. The resulting build up has to be chemically removed with a harsh chemical solvent like acids which can cause serious injury to the skin or eyes, and fumes cause breathing problems and damages metal.

All natural non-toxic BacShield is free of these issues. BacShield will not stain, erode, discolor or destroy fabrics and furnishings.

BACSHIELD CAN BE EVERYWHERE

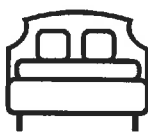
Safety at Work, Home, School and Play



LAUNDRY



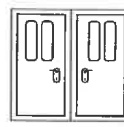
TV + ELECTRONICS



FURNITURE



TENTS, CANVAS,
AWNINGS, FABRIC



DOORS,
WINDOWS, WALLS



GROCERY
RETAIL



VESTS



Hardware



GYMS



VETERINARY



RESTROOMS



MANUFACTURING



AUTOS
INTERIOR +
EXTERIOR



CRUISES
SHIPPING
MARINE VESSELS



STADIUMS
ARENAS
PARKS



RESIDENTIAL
APARTMENTS
DOORMS



MEDICAL
LABORATORIES
CLINICS



SPORTS
EQUIPMENT

BacShield® Registrations + Testing

The Chart below includes searchable Public Documents. The current EPA Registrations are the commercial claims that can and will be made in reference to BacShield Products. The supporting (Supplemental Testing) documentation are all supportable by Public Records but are not contained in the current Public Registrations.

Government Registrations & Documents	Supplemental Testing
EPA BacShield Registration # 81446-1 # 81446-2	Methicillin-resistant Staphylococcus aureus (MRSA)
US Patent #US9149036B1	E. coli-
US Pat Pending Electrostatic Sprayer application of Chitosan	Staph (S. aureus)
EPA Reg. Packout facility 96229-GA-1	Methicillin-resistant Staphylococcus pseudintermedius (MRSP)
Dec 24, 2008 EPA Fed Register Chitosan	Pseudomonas Aeruginosa
Oral Toxicity Study	VRE Faecalis (Vancomycin resistant VRE)
Dermal Toxicity Study	VRE Faecium (Vancomycin resistant VRE)
Primary Skin Irritation Study	Carbapenem resistant K. Pneumoniae (CRKP)
Primary Eye Irritation Study	Carbapenem resistant E. coli (CRE)
Primary Inhalation Study	Feline Coronavirus

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