

GTECHCLEAN

Complete Germ Protection

Covid-19 Certified EPA No. 6836-152-92623



GTech is Cost-Effective

*One application of **GTech** will keep germs under control for at least 2 to 5 days. This means you don't have to reapply GTech every day to still have the active antimicrobial protection you need. **GTech** WILL save time & money compared to other methods.*

GTech is EPA Registered & USDA Compliant

***GTech** is the only chemical bound, non-leaching additive that provides unmatched safety and performance. Tests show it outperforms 1% silver products with statistical significance that rivals all standards in any study.*

GTech vs. Bleach & Disinfectants

Bleach and disinfectants lack the extended durability like GTech. Bleach also releases gases that burn eyes and create fumes. Also, the chemicals in bleach permanently denature microbes, allowing them to mutate into "superbugs."



Spray Benefits

- ◆ Prevents **Covid-19**, MRSA, Staph, H1N1, & other bacteria
- ◆ Terminates mold, mildew & fungus
- ◆ Skin friendly
- ◆ Stain Remover
- ◆ *Long lasting anti-microbial shield of protection*

- ◆ Non-toxic- no alcohol, ammonia or bleach
- ◆ Environmentally friendly
- ◆ Ready to Use One step solution
- ◆ **EPA** approved
- ◆ Deodorizing Disinfectant



NEW AGE CLEAN DISINFECTION CONTROL FORMULA

GTECHCLEAN

Complete Germ Protection

KILLS 99.9% of Bacteria & Viruses



Conventional Clean

GTech Clean

Effective

Durability—Conventional cleaners have zero extended durability profile. As soon as the chemical product is dry, the surface begins to recontaminate.

Dwell Time—Significant dwell times increase time spent cleaning and allow for recontamination.

Durability—GTech's durability profile is second to none. GTech is over 30 times more durable than conventional cleaners.

Dwell Time—GTech decreases dwell time with a 99.9% reduction of microbes on contact.

Affordable

of Applications—Conventional cleaners have no extended durability profile. They require elevated amounts of applications, increasing your costs.

Quantity of Product—You will use 90% more product when using conventional cleaners.

of Applications—GTech's one-step process and durability profile means you are protected between cleanings, saving thousands of dollars. On average 99% less time is spent annually on application.

Quantity of Product—Savings add up quickly with GTech. Our high durability means you buy significantly less product.*

Safe

Chemicals—*Chemical-based antimicrobial agents poison microbes, giving them the capacity to evolve into "superbugs". Chemicals cause skin irritation and increase occurrences of allergies.*

Fumes—Volatile Organic Compounds (VOC's) release into the air we breathe, smell terrible and make us sick.

If Ingested—Conventional cleaners can cause cold sweats, circulatory collapse, convulsions, coma, and even death.

Earth Elements—GTech's active ingredient is organic and silane-based, physically disrupting the organism without the use of dangerous chemicals! GTech effectively electrocutes offending microbes, preventing the creation of much feared "superbugs". With GTech no allergic reactions or harmful skin irritations will occur.

Environmentally Friendly—GTech is colorless and non-leaching, with no VOC's or harmful chemicals.

NEW AGE CLEAN DISINFECTION CONTROL FORMULA
Leaves Surfaces Cleaner Longer



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www.GTECHCLEAN.COM



There's more to clean surfaces than meets the eye. Virtually every public or private surface represents a potential breeding ground for microorganisms.

GTech Clean Antimicrobial products offer continual protection without adversely affecting other product characteristics. We make it possible to stop non-pathogenic, odor causing microbes, bacteria and fungi in their tracks.

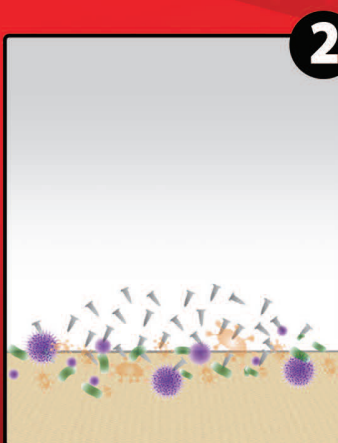


The science behind how GTech works



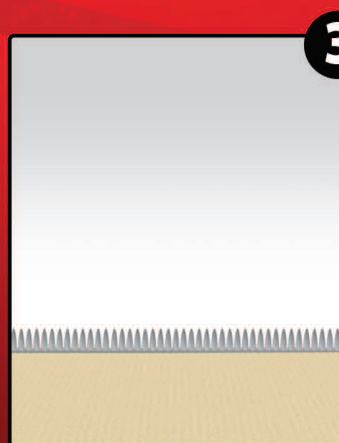
APPLY

Surface contaminated with Bacteria, Germs, Mold and Mildew. GTech being applied.



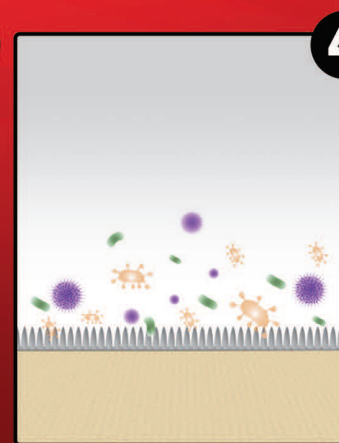
ATTACK

GTech attacks Bacteria and Germs on surfaces with millions of microscopic spears.



PROTECT

Once dry GTech leaves a microscopic bed of protectors forming a long lasting line of defense.



PREVENT

GTech forms an impenetrable and deadly layer of defense harmful to micro-organisms such as bacteria which rupture on contact

The Challenge Protecting Your Athletes Against MRSA, Staph, H1N1, Coronavirus & Other Bacteria

Are your facilities, athletes & staff at risk.

What can you do to protect them
against the dangerous infections?



Be Proactive: Address the Issue Before the Problem Arises

Covid-19 Certified EPA No. 6836-152-92623

Only **GTech Anti-microbial** utilizes organic technology to create a protective barrier for a longlasting defense against a broad range of microorganisms.

#1 Gold Standard in Anti-microbial protection against dangerous diseases and cross contamination.



GTech Antimicrobial Provides A Safe & Healthier Environment!

GTech is Cost-Effective

One application of **GTech** will keep germs under **control** up to **5 days**. This means you don't have to reapply **GTech** every day to still have the active antimicrobial protection you need.

GTech is a Platinum in our industry.

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Don't settle for conventional clean. It's easy to realize the benefits of being GTech Clean. Call us today at **866.GTECH.00**

Have Cleaner Environments • Save Time and Money • Live Safely

*Visit our website www.GTechSport.com to see how we compare to many conventional cleaners.



ALL GEAR

CLEANING SYSTEM

24 / 7 PROTECTION

Covid-19 Certified EPA No. 6836-152-92623

1 DISINFECTS

2 KILLS MOLD & MILDWEW

3 DE-STINKIFIES

4 24 / 7 PROTECTION

5 STAIN REMOVER



Refresh ✦ Protect ✦ Restore

www.GtechClean.com ~ 866.483.2400

GTECHCLEAN

Complete Germ Protection

Kills 99.9% of bacteria and viruses*



GTech VIP Kill Zone!!!



EPA lists of common pathogens effective against

Covid-19 Certified EPA No. 6836-152-92623

Effective Against Bacteria

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

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GTech VIP Kill Zone!!!



EPA lists of common pathogens effective against

Covid-19 Certified EPA No.

Kill Zone Cont.

6836-152-92623

Effective Against Viruses

- *Hepatitis B (HBV)
- *Hepatitis C (HCV)
- *Herpes Simplex Type 1
- *Herpes Simplex Type 2
- *HIV-1 (AIDS)
- *Human Coronavirus
- *Influenza Virus Type A / Brazil
- *Covid-19
- *Influenza Virus Type A / Hong Kong
- *Influenza H1N1 (formally called swine flu)
- *2013 Influenza A Virus (H7N9)
- *Respiratory Syncytial Virus [RSV]
- *SARS Associated Coronavirus [SARS] (cause of Severe Acute Respiratory Syndrome)
- *Vaccinia (Pox Virus)
- *Norwalk Virus (Feline Calicivirus)

Effective Against Animal Viruses

- Avian Infectious Bronchitis Virus
- Avian Influenza [virus] (H₃N₂)
- Avian Influenza [virus] (H₅N₁)
- Canine Distemper Virus
- Feline Calicivirus
- Murine Norovirus
- Newcastle's Disease Virus
- Pseudorabies Virus

Our Family of Products



GTECHCLEAN

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GTech VIP Uses

EPA List Of Uses In The Home, Restaurants, Hospitals, Institutions and Industrial Applications

Bathrooms
Homes- households
Kitchens

Clinics
Dental offices
Health Care Facilities
Hospitals
Medical Offices
Medical Related facilities
Nursing homes
Sick Rooms

Day care centers
Nurseries

Bars
Cafeterias
Convenience stores
Food processing plants
Food storage areas
Institutional kitchens
Restaurants- Front of House
USDA inspected food processing facilities

Athletic facilities
Barber shops
Business and office buildings
Colleges
Correctional facilities
Dressing rooms
Exercise facilities
Factories
Hotels
Institutional facilities
Institutions
Locker rooms
Motels

Prisons
Public facilities
Public rest rooms,
Schools
Shower and bath areas
Beauty and Tanning Salons

Camp grounds
Play ground equipment

Animal laboratories
Dairy farms
Farms
Hog farms
Kennels
Mushroom Farms
Poultry farms
Pet animal quarters
Pet shops
Turkey farms
Zoos

Airplanes
Airports
Ambulances
Boats
Buses
Campers
Cars
Emergency Police, EMS, Fire and Rescue vehicles

Mobile homes
Ships
Taxis
Trailers
Trains
Transportation terminals

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Uses continue

Cages

Chairs

Coils and drain pans of air conditioning and refrigeration equipment and heat pumps

Conductive flooring

Counters- countertops

Countertop laminates

Doorknobs

Floors

Garbage cans

Highchairs

Kennel runs

Outdoor patio furniture except cushions and wood frames

Refrigerators, exteriors

Refrigerated storage and display equipment

Whirlpool bathtubs

Non-critical medical device surfaces:

Beds- Medical & Hospital

Bed frames

Bed rails

Crutches

Defibrillators

Gurneys

Non-critical hospital medical equipment surfaces:

Medical examining tables

Hospital Lamps

Rescue tools

Resuscitators

Stands

Stretchers

Stethoscopes

Walkers

Wheel chairs

Other hard nonporous surfaces made of:

Glazed ceramic

Glazed enameled surfaces

Glazed porcelain

Laminated surfaces

Metal

Plastic- polystyrene or polypropylene

Sealed stone

Stainless steel

Upholstery, vinyl and plastic

Woodwork, finished

Commercial/industrial

Work helmets

Vest

Work gloves

Boots

Jackets

Protective gear

Overalls

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SECTION 1. IDENTIFICATION

Product name : GTECH CLEAN
Product code :

Manufacturer or supplier's details

Company	:	GTECH SPORT INC 11040 BOLLINGER CANYON RD STE1 SAN RAMON CA 94582-4969 (866) 483-2400
E-mail address	:	info@gtechsport.com

Emergency telephone number : For US only CHEMTREC 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Biocides

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom 2012).

GHS label elements

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom 2012).
Based on available data, the classification criteria are not met. Handle in accordance with good industrial hygiene and safety practice.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P270 Do not eat, drink or smoke when using this product.
Response:
P314 Get medical advice/ attention if you feel unwell.
Storage:
P410 + P403 Protect from sunlight. Store in a well-ventilated place.
P402 + P404 Store in a dry place. Store in a closed container.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%)
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Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	0.05
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	0.03

SECTION 4. FIRST AID MEASURES

If inhaled	:	No special precautions required.
In case of skin contact	:	Wash with water and soap as a precaution. If skin irritation persists, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

If swallowed : Immediately give large quantities of water to drink.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

: No information available.

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Dry powder Foam
Specific hazards during firefighting	:	Heating or fire can release toxic gas.

Further information : Use water spray to cool unopened containers.

Special protective equipment for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Environmental precautions		
General advice	:	Prevent product from entering drains.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE



- Advice on safe handling : No special precautions required.
- Conditions for safe storage : Keep container tightly closed.
Keep in a dry, cool and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
No special protective equipment required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour	:	no data available
Odour	:	no data available

Odour Threshold : no data available

pH : 11

Melting point/freezing point : no data available

Boiling point/boiling range : ca. 100 °C
Water

Flash point : > 93.3 °C

Evaporation rate : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available



Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available

Density : no data available

Solubility(ies)
Water solubility : soluble

Partition coefficient: n- octanol/water
: no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid	:	no data available
Incompatible materials	:	Strong oxidizing agents

Hazardous decomposition products
: No decomposition if stored normally.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
: Inhalation Ingestion Eyes Skin

Acute toxicity

Acute dermal toxicity (LD50) : > 2,000 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : non irritant
Species: Rabbit

Serious eye damage/eye irritation

Eye irritation : minimal irritant
Species: Rabbit

Carcinogenicity

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Remarks: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental compartments

Other adverse effects

Results of PBT and vPvB assessment

: Remarks: no data available

: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.
Contact waste disposal services.

SECTION 14. TRANSPORT INFORMATION**IATA**

Not dangerous goods



Environmental hazards : no

IMDG Not dangerous goods

ADR

Environmental hazards : Marine pollutant: no
:
Not dangerous goods

RID

Environmental hazards : no
:
Not dangerous goods

DOT

Environmental hazards : no
:
Not dangerous goods

Environmental hazards : no

TDG

:
Not dangerous goods

Environmental hazards : no



Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA No. : 6836-152-92623

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards : No SARA Hazards

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Pennsylvania Right To Know

New Jersey Right To Know

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Pennsylvania Right to know act

No components are subject to the New Jersey Right to know act

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Revision Date : 04/03/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



EFFICACY DATA for Product Central 105: Sanitizer (GTECH® 1.3% Solution)

VIRUCIDAL DATA:

Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828).

: Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.

- Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836)

: 10 minute contact time, glass petri dish substrates, 18.5-25°C exposure temperature, tested in the presence of serum

Results:

<u>Test Organism</u>	<u>Sample</u>		<u>Titer Reduction</u>	
†Adenovirus Type 5	A	B	$\geq 3.0 \log_{10}$	$\geq 3.3 \log_{10}$
*Avian Influenza A/Turkey/Wisconsin (ATCC VR-798)	A	B	$\geq 5.5 \log_{10}$	$\geq 5.5 \log_{10}$
‡Bovine Viral Diarrhea Virus (BVDV)	A	B	$5.93 \log_{10}$	$5.93 \log_{10}$
•Hepatitis B Virus (HBV) (Duck Hepatitis B Virus- DHBV)	A	B	$4.68 \log_{10}$	$4.68 \log_{10}$
‡Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A	B	$5.93 \log_{10}$	$5.93 \log_{10}$
†Herpes Simplex Type 1 (Sabin)	A	B	$4.0 \log_{10}$	$4.0 \log_{10}$
*Human Coronavirus (ATCC VR-740, strain 229E)	A	B	$\geq 4.25 \log_{10}$	$\geq 4.25 \log_{10}$
*Human Immunodeficiency Virus, HIV-1, strain HTLV- III _B , (associated with AIDS)	A	B	$\geq 3.5 \log_{10}$	$\geq 3.5 \log_{10}$
†Influenza A ₂ (Japan 305/57)	A	B	$7.5 \log_{10}$	$7.5 \log_{10}$
*Laryngotracheitis (LT- IVAX)	A	B	$4.75 \log_{10}$	$\geq 4.75 \log_{10}$
*Newcastle Disease Virus (strain H.J. Roakin, 1946)	A	B	$\geq 5.5 \log_{10}$	$\geq 5.5 \log_{10}$
*SARS associated Coronavirus (ZeptoMetrix)	A	B	$4.03 \log_{10}$	$4.03 \log_{10}$
†Vaccinia (Wyeth)	A	B	$3.5 \log_{10}$	$3.5 \log_{10}$

Conclusion: Under the conditions of this investigation, GTECH® 1.3% Solution was **virucidal** for Adenovirus Type 5, Avian Influenza A/Turkey/Wisconsin, Bovine Viral Diarrhea Virus (BVDV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (Sabin), Human Coronavirus, Human Immunodeficiency Virus (HIV-1), Influenza A₂ (Japan 305/57), Laryngotracheitis, Newcastle Disease Virus, SARS associated Coronavirus and Vaccinia (Wyeth) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

SANITIZATION DATA:



Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

Test Conditions: synthetic hard water as **650 ppm** hardness (as CaCO₃)

200 ppm active quaternary (public eating establishments and dairies)

200-400 ppm active quaternary (food processing equipment/utensils)

1-2 ounces/1 gallon dilution

Results:

TOTAL BACTERIAL COUNTS/
% KILL vs. EXPOSURE TIME

Organism	30 seconds			60 seconds		Initial Inoculum
	Sample	TBC*	% Kill†	TBC*	% Kill†	Control Count
<i>Staphylococcus aureus</i> (ATCC 6538)	A	970	99.999	105	99.999	7.8 x 10 ⁷
	B	1285	99.999	205	99.999	9.2 x 10 ⁷
	C	1145	99.999	130	99.999	9.3 x 10 ⁷
<i>Escherichia coli</i> (ATCC 11229)	A	1125	99.999	50	99.999	1.0 x 10 ⁸
	B	1075	99.999	95	99.999	9.3 x 10 ⁷
	C	835	99.999	75	99.999	8.1 x 10 ⁷
<i>Campylobacter jejuni</i> (ATCC 29428)	A	790	99.999	410	99.999	8.6 x 10 ⁷
	B	780	99.999	470	99.999	8.6 x 10 ⁷
<i>Escherichia coli</i> O157:H7 (ATCC 43895)	A	1220	99.999	110	99.999	9.2 x 10 ⁷
	B	1000	99.999	125	99.999	9.2 x 10 ⁷
<i>Listeria monocytogenes</i> (ATCC 35152)	A	<10	>99.999	<10	>99.999	7.8 x 10 ⁸
	B	<10	>99.999	<10	>99.999	7.8 x 10 ⁸
Methicillin resistant <i>Staphylococcus aureus</i> (ATCC 33592)	A	950	99.999	<10	>99.999	1.0 x 10 ⁸
	B	970	99.999	<10	>99.999	1.0 x 10 ⁸
<i>Salmonella typhi</i> (ATCC 6539)	A	<10	>99.999	<10	>99.999	1.4 x 10 ⁸
	B	<10	>99.999	<10	>99.999	1.4 x 10 ⁸
<i>Shigella sonnei</i> (ATCC 11060)	A	680	99.999	<10	>99.999	9.3 x 10 ⁷
	B	4500	99.999	<10	>99.999	9.3 x 10 ⁷
Vancomycin resistant <i>Enterococcus faecalis</i> (ATCC 51299)	A	<10	>99.999	<10	>99.999	1.2 x 10 ⁸
	B	<10	>99.999	<10	>99.999	1.2 x 10 ⁸
<i>Vibrio cholera</i> (ATCC 14035)	A	<10	>99.999	<10	>99.999	8.3 x 10 ⁷
	B	<10	>99.999	<10	>99.999	8.3 x 10 ⁷
<i>Yersinia enterocolitica</i> (ATCC 23715)	A	108	99.999	<10	>99.999	1.7 x 10 ⁸
	B	1300	99.999	263	99.999	5.9 x 10 ⁸

*TBC = Total Bacterial Count, organisms/ml

Kill calculation based on Initial Inoculum Control Count.

Conclusion: Under the conditions of these investigations, GTECH® 1.3% Solution demonstrated **sani-tizing** activity against *Staphylococcus aureus*, *Escherichia coli*, *Campylobacter jejuni*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, Methicillin resistant *Staphylococcus aureus*, *Salmonella typhi*, *Shigella sonnei*, Vancomycin resistant *Enterococcus faecalis*, *Vibrio cholera* and *Yersinia enterocolitica* according to criteria established by the U. S. Environmental Protection Agency



SANITIZATION DATA (continued):

Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

Test Conditions: synthetic hard water as **650 ppm** hardness (as CaCO₃)

300-400 ppm active quaternary (food processing equipment/utensils ONLY)

1.5-2.0 ounces/1 gallon dilution

Results:

Organism	30 seconds		TOTAL BACTERIAL COUNTS/ % KILL vs. EXPOSURE TIME		Initial Inoculum	
	Sample	TBC*	% Kill†	60 seconds TBC*	% Kill†	Control Count
<i>Klebsiella</i>	A	100	99.999	<10	>99.999	9.4 x 10 ⁸
<i>pneumoniae</i> (ATCC 4352)	B	310	99.999	<10	>99.999	9.4 x 10 ⁸

*TBC = Total Bacterial Count, organisms/ml

† Kill calculation based on Initial Inoculum Control Count.

Conclusion: Under the conditions of these investigations, GTECH® 1.3% Solution demonstrated **sani-tizing** activity against *Klebsiella pneumonia* at 300 ppm quaternary concentration and 650 ppm water hardness according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.

Test Method: AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

Test Conditions: synthetic hard water as **500 ppm** hardness (as CaCO₃)

200 ppm active quaternary (public eating establishments, dairies, and food processing equipment/utensils)

1 ounce/1 gallon dilution

Results:

Organism	30 seconds		TOTAL BACTERIAL COUNTS/ % KILL vs. EXPOSURE TIME		Initial Inoculum	
	Sample	TBC*	% Kill†	60 seconds TBC*	% Kill†	Control Count
<i>Klebsiella</i>	A	340	99.999	<10	>99.999	1.1 x 10 ⁸
<i>pneumoniae</i> (ATCC 4352)	B	190	99.999	<10	>99.999	1.1 x 10 ⁸

*TBC = Total Bacterial Count, organisms/ml

† Kill calculation based on Initial Inoculum Control Count.

Conclusion: Under the conditions of these investigations, GTECH® 1.3% Solution demonstrated **sanitizing** activity against *Klebsiella pneumoniae* at 200 ppm quaternary concentration and 500 ppm water hardness according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.



DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 5% organic soil load, 10 minute contact time, stainless steel carrier substrates
20°C exposure temperature

Results:

<u>Test Organism</u>	<u>Dilution</u>	<u>Number of Carriers</u> <u>Sample</u>	<u>Exposed</u>	<u>Positive</u>
<i>Staphylococcus aureus</i> (ATCC 6538)	3 ounces/5 gallons	A	60	0
		B	60	0
<i>Salmonella enterica</i> (ATCC 10708)	3 ounces/5 gallons	A	60	0
		B	60	0
<i>Listeria monocytogenes</i> (ATCC 35152)	3 ounces/5 gallons	A	10	0
		B	10	0
<i>Yersinia enterocolitica</i> (ATCC 23715)	3 ounces/5 gallons	A	10	0
		B	10	0
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	3.5 ounces/5 gallons	A	60	0
		B	60	0
<i>Staphylococcus aureus</i> (Vancomycin intermediate resistant) (VISA) (HIP- 5836)	3.5 ounces/5 gallons	A	10	0
		B	10	0
<i>Xanthomonas axonopodis</i> (pathovar <i>citri</i>) (Citrus Canker) (USDA Permit No. 46190)	2.67 ounces/1 gallon	A	10	0
		B	10	0

Under the conditions of these investigations, GTECH® 1.3% Solution demonstrated **disinfectant** activity against *Staphylococcus aureus*, *Salmonella enterica*, *Listeria monocytogenes*, *Yersinia enterocolitica*, *Pseudo-monas aeruginosa*, *Staphylococcus aureus* (Vancomycin intermediate resistant) (VISA), and *Xanthomonas axonopodis* pathovar *citri* (citrus canker) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.