



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 25, 2023

David Swain
Agent
Gelest, Inc.
Electronic Transmittal: david.swain@srconsultants.com

Subject: Label Amendment – Adding marketing claims
Product Name: HE 4005 ANTIMICROBIAL
EPA Registration Number: 83019-5
Received Date: 6/22/2021
Action Case Number: 00307424

Dear David Swain:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Carlos Corona via email at Corona.Carlos@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Tara M. Flint Silva". The signature is written in a cursive, flowing style.

Tara Flint Silva, Acting Product Manager 31
Regulatory Management Branch I
Antimicrobials Division
Office of Pesticide Programs

ACCEPTED

08/25/2023

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 83019-5

HE 4005 Antimicrobial***A METHANOL FREE SILANE QUATERNARY AMMONIUM SALT**

For use as an antimicrobial* preservative under EPA and FDA Regulations to preserve finished food contact articles* (Food Preparation Surfaces, Polymeric Tubing for Beverages, Activated Carbon Water Filters) subject to FDA Regulations.

EPA Reg. No. 83019-5

EPA Est.No. 83019-PA-001

ACTIVE INGREDIENT: 1-Octadecanaminium,N,N-dimethyl-N-[3-(trihydroxysilyl)propyl],chloride: 5%
OTHER INGREDIENTS..... 95%
TOTAL:100%

KEEP OUT OF REACH OF CHILDREN

CAUTION**FIRST AID**

Have product container or label with you when calling Poison Control Center or doctor, or going for treatment.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after first 5 minutes, then continue rinsing.
- Call a Poison Control Center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Every effort should be made to contain accidental spills of powder to the immediate area. Many spills may be cleaned up alone or with sand or absorbent materials by sweeping and collection in a waste bin. The material may then be disposed of by incineration or landfill.

Inactivation of solutions containing HE 4005 Antimicrobial*¹ may be accomplished by addition of an anionic surfactant, or detergent in quantity equivalent to that of HE 4005 Antimicrobial* in solution.

LOT NO. _____ NET CONTENTS _____

***does not protect against human health pathogens or disease causing organisms**

{deleted and moved logo and address}

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PRODUCT FEATURES AND BENEFITS

HE 4005 Antimicrobial* imparts durable bacteriostatic activity to the surface of a wide variety of substrates.

HE 4005 Antimicrobial* is effective against mold, mildew and algae as a static agent.

Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of HE 4005 Antimicrobial* according to the Directions for Use.

Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.

(Note to Reviewer: Marketing text is considered optional. Commas and the words “and” “or” can be added to phrases to make text grammatically correct.)

{MARKETING CLAIMS:}

- Bacteriostatic
- Zero {Methanol} {Methyl Alcohol} {Hazardous Air Pollutants}
- Methanol Free
- No {Hazardous Air Pollutants} {Methyl Alcohol} {Methanol}
- Methanol- {Methyl Alcohol-} Free Manufacturing Process
- Chlorine free, no bleach
- Concentrate (Concentrated)
- Deodorizes (Deodorizer)
- Does not contain bleach
- Unscented (Note to reviewer: Used with no fragrance formula)
- Waterproof antimicrobial* surface treatment
- Bleach free
- {3 Month} Protection for indoor and outdoor use
- Odor Causing Mold free for up to 3 months
- Reapply this product every 3 months to replenish barrier from mold and mildew which cause staining and discoloration
- Makers of BIOSAFE® {Technology}
- Powered by BIOSAFE® {Technology}
- Protected by BIOSAFE®

For use as a [{protective coating} {protective barrier}] [{in} {or} {on}]: {insert from location or surface list below}
This product can be used [{on} {or} {in}] {insert material from list below} as [{protective coating} {preservative} {protective barrier} {laundry additive}]:

This product can be used as a [{final bacteriostatic finish} {laundry additive}] [{on} {or} {in}] the following items to impart bacteriostatic/fungistatic (mold and mildew) activity. {insert from surface or material list below}

Locations:

- {Approved} Commercial, Industrial, Homeowner, Institutional, Institutions {applications} {uses}
- Homes, Hotels, Offices, Public Facilities, {Public} Restrooms, Bathrooms, Kitchens, Schools, Day-Care Centers, Colleges, Universities, Dormitories, Banks, Churches, Bars, Convenience Stores, Barber Shops, Salons, Correctional Facilities, Playgrounds, Laundries, Laundromats, Hospitals, Medical related Facilities, Medical Offices, Clinics, Dental Offices, Health Care Facilities, Nursing Homes, Athletic Facilities, Locker Rooms
- Automobiles, Airports, Airplanes, Transportation Terminals, Ambulances, Boats, Buses, Campers, Cars, Emergency Vehicles, Ships, Taxis, Trains, Trucks
- Animal facilities, animal laboratories, farms, kennels, pet shops, zoos, farm premises, barns, pens, stalls, and other facilities occupied or traversed by animals; swine premises, farrowing barns and areas, nursery, blocks, creep areas.

Surfaces:

- Air Filters for furnaces, air-conditioners, air purification devices, recirculating air handling systems;

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- {Bathroom} {restroom} fixtures, Tubs, glazed tile, vanity tops, [shower {stalls}{areas}], sinks, washable walls, wallpaper, floors, windowsills, cabinets, garbage cans, appliances, refrigerators (exterior),
- Formica®, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl
- Buffer pads (abrasive and polishing), cellulose sponges, sponges, mops
- polyurethane and cellulose foam {{for} {household,} {industrial,} {and} {institutional} use
- Coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Farm premises - floors, walls, forks, shovels, scrapers and other non-porous surfaces in barns, pens, stalls, and other facilities and fixtures occupied or traversed by animals; swine premises - on/in hauling equipment, loading
- equipment, farrowing barns and areas, nursery, blocks, creep areas.
- Hard hats, half mask respirators, inside and outside of full face breathing apparatus, gas masks, goggles, spectacles, face shields, fabric and plastic face masks, gloves, hearing protectors, earplugs and earmuffs.
- Vacuum cleaner bags and filters, umbrellas, sandbags, tents, tarpaulins, sails, ropes, fire hose fabric, humidifier belts

Materials:

- Air filters/materials, Aquarium filter material, fiberglass
- Air filters and air filter material for: Furnaces, air conditioners, Air purification systems
- Athletic gear, athletic wear, athleisurewear, sportswear, exercise clothing, active gear, athletic shoes, workout wear, wetsuits, yoga mats, bike seats, bike seat covers, wrestling headgear, boxing headgear, protective headgear, {athletic} {cycling} {motorcycle} helmets, scuba [{gear} {equipment}]; Non-porous athletic mats, wrestling mats, gymnastic mats, [{athletic} {exercise} {gym}] equipment {and} training tables.
- Bed sheets, bedding, blankets, and bedspreads, Carpets and draperies- Fiberfill for upholstery, sleeping bags, Mattress pads and ticking Shower curtains- Throw rugs, Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers throw rugs, towels, toilet tank covers
- {Men's} {Women's}{Children's}{Infants}{Babies} [{high performance} {tight knit} fabric], underwear, outerwear, intimate apparel, apparel {including}, jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys , ponchos, gloves, {Athletic} {casual} socks, hosiery,{casual} shoes, shoe insoles, sandals, sneakers, tennis shoes, boots, sports shoes, pajamas, sleepwear, pants, shorts, sports uniforms, medical uniforms, scrubs, jeans, denim, tops, tank tops, shirts, sports bras, running bras, swimwear.
- {Vegan} Non-woven polyester, acetates, acrylics, cotton, fiberglass, leather, linen, Lycra, latex, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, nitrile, rayon, silk, spandex, rubber, vinyl, and wool
- Synthetic Fabrics, Vegan Fabric
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Exterior walls (such as stone, concrete, brick), Fiberglass duct board
- Polyurethane and polyethylene foam, when covered Polyurethane foam for packaging and cushioning in food contact applications Polyurethane foam used as a growth medium for food crops and plants
- Vinyl paper-wallpaper
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties) for surface use.
- This product can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins,
- polypropylene, plastic, rayon, spandex, vinyl, wool; Fiberfill to be used in upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, rayon, or wool.
- Where the {Vegan} [{fibre}{fabric}] is {high performance} {tight knit} {cotton}, {natural down}, {nylon}, {polyester}, {rayon}, {wool} {lycra} {wool/silk/nylon/Lycra} {wool/acrylic/nylon/Lycra} {nylon/orlon}, {cotton/nylon}, {linen/Lycra}, {acrylic/polypropylene}, {synthetic materials} {wool/silk/nylon/Lycra} and {wool/acrylic/nylon/Lycra};

{Preservation Marketing}

- Creates an invisible barrier to inhibit the growth of [{odor causing bacteria} {fungi (mold and mildew)} {mold} {algae} {odor- causing bacteria,} {bacteria which cause staining and discoloration}] to keep indoor and outdoor surfaces
- Inhibits deterioration caused by [{odor causing bacteria} {fungi (mold and mildew)} {algae} {odor-causing bacteria,} {bacteria which cause staining and discoloration}].
- Odor Protector Mold, Mildew, , Odor Inhibitor
- Odor eliminating.

Note to reviewer: All text in brackets [...] is optional and may or may not be included on a final label. All text in braces {...} is administrative and will not appear on a final label.

- Prevents deterioration caused by [odor causing bacteria] {fungi (odor causing mold and mildew)} {algae} {odor-causing bacteria,} {bacteria which cause staining and discoloration}}.
- {Prevents} {Inhibits} {Eliminates} colonization of {unwanted} odor causing microorganism {odor causing bacteria} on hard surfaces
- Provides an invisible microbiostatic coating {shield} to inhibit the growth of [{bacteria} {fungi (mold and mildew)} {algae} {odor-causing bacteria,} {bacteria which cause staining and discoloration}}].
- Provides/creates an invisible barrier to inhibit the growth of [{bacteria} {fungi (mold and mildew)} {algae} {odor-causing bacteria,} {bacteria which cause staining and discoloration}}].
- The active ingredient in this product is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
- This product is an agent effective against [{bacteria that cause offensive odors on hard, non-porous surfaces} {odor-causing bacteria in the [{kitchen} {and} {bathroom}]]
- This product is effective against [odor causing bacteria,] {bacteria that cause staining and discoloration,} {fungi (mold and mildew),} {algae}.
- This product provides an invisible barrier to inhibit the growth of [odor-causing bacteria] {bacteria which cause staining and discoloration}.
- This product prevents {fabric} deterioration {wickability} caused by bacteria.
- Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
- Use on carpet and upholstery to inhibit the growth of [odor-causing bacteria] {bacteria which cause staining and discoloration} {fungi (mold and mildew)} {algae}.

{Laundry Marketing}

- Active care for your activewear.
- Activewear demands more protection
- Antibacterial barrier that [{protects} {prolongs the performance of}] fabrics from bacteria that cause [{stains} {odors}].
- Antibacterial coating that inhibits the growth of bacteria that cause {heavy-duty} odors
- fabric [{protector} protectant] {treatment}{additive}}
- Antibacterial [{in wash additive} {in-rinse booster} {clothes protector} {fabric strengthener {& Protector}}] from bacteria that cause {stains} {odors}.
- Antibacterial laundry [{additive}{protectant}] from bacteria that cause {stains} {odors}.
- Antibacterial {laundry}{fabric} {activewear} {clothing} {athletic gear} protection that lasts up to [{90 days} {3 months}]{6} {to}{8} weeks]] {in between [{laundryings} {or} {washes} {loads} {washing}] against bacteria that cause odors and stains.
- Antibacterial [{protection}{barrier}{shield}] that [{Kills} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys} [{bacteria that cause odors} {odor caused by bacteria} {odor causing bacteria} {odors} {stains} {mold} {mildew}{the growth of odor causing bacteria}]
- Awesome for cotton, lycra, nylon, rayon, polyester, spandex, and wool
- Awesome for all fabrics
- Awesome for shoes, gear, mats, bags and workout equipment
- Odor Causing Bacteria Stinks. But {You} {Your Activewear} {Your Clothes} {Your Gear}: Don't Have To.
- Can be used on {most} {fabrics}{clothing} {including} {white{s}} {and} {color{s}}
- Cleans {and protects} your laundry
- Clean, Not a Coverup.
- Clean shouldn't be mean.
- [{Controls} {eliminates} objectionable [{odors} {unsightly stains} {product deterioration} caused by odor causing bacteria]
- Creates a continuously self-cleaning shield to prevent the regrowth of bacteria that cause {odors} {and} {or} {staining} {decolorization}
- {Designed}{Suitable}{Formulated} {for} {to} {use} {on} {{insert brand partner brand name}} {athletic wear} {fabric}{cloth{es}} {garment{s}} {sportswear}{activewear}
- Designed for activewear
- Destroys odor causing bacteria
- Destroys bacterial odors and stains

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- Does not interfere with the {wicking}{moisture} {technology}{absorbency} of {high performance} {active}{sports} {wear} {gym clothes} {towels}
- Eliminates bacteria that cause odors and provides protection for [{90 days} {3 months} [{6} {to}{8} weeks]] {amount of time} {in between} [{laundryings} {or} {washes} {loads} {washing}].
- Eliminates bacteria that cause stains and odors from fabric
- Eliminates bacterial odors on items like athletic apparel, bedding, towels, pet beds, and masks
- Eliminates odor causing bacteria
- Eliminates odors and stain causing bacteria
- Eliminates odors on {soft surfaces} {fabrics} {by} {removing}{killing} {odor-causing bacteria} {for long lasting} {freshness}
- Eliminates stains and discoloration caused by bacteria, mold, and mildew Helps fabrics withstand regular wear and tear from sweat, oils, and other contaminants, so they last longer.
- Eliminates stubborn odors
- [insert brand name] – for what moves you
- Fabric protecting.
- For Humans Who Sweat.
- For use in {any} {cold} {warm} {and / &} {hot} water {temperature{s}}
- For {Standard}} {and / &}} {High Efficiency}} {HE}} Machines
- For single {dose}{use}
- {For} {Sportswear} {Athletic wear} {clothes} {laundry} {fabrics} {garments}{!}
- For Work Wear. Workout Wear. Any-wear.
- Formulated to [{Kills} {Eliminates}{Controls} {Prevents} {Inhibits} {Attacks} {Destroys}] [{bacteria that cause odors} {odor caused by bacteria} {odor causing bacteria} {odors} {stains} {mold} {mildew}{the growth of odor causing bacteria}]that detergents may leave behind without the harshness of bleach.
- Friends don't let friends abuse their activewear.
- Gentle on fabrics
- Gentle on {most} {clothes}{garments}{delicates}{fabrics}
- Goes beyond softening to preserve wickability and eliminate odors.
- Helps your [{clothes} {athletic gear} {laundry} {fabrics}] stay [{cleaner} {fresher} {last longer}] than untreated fabrics.
- Increases the number of uses before fabrics needs to be laundered. So, you use less water
- Inhibits deterioration of fabric caused by bacteria, mold and mildew
- Inhibits re-contamination of surfaces from bacteria that cause odors
- protects fabrics from [{odor causing bacteria}{mold}{mildew}{bacteria that cause stains and odors} that cause [{stains} {odors}].
- {Just} Add to {rinse}{cycle}{routine} {fabric softener} {drawer}{compartment} {Light scent}
- Keeps clothes feeling soft and new
- Keeps your activewear strong and comfortable.
- Keeps your activewear performing for as long as you do.
- Kills bacteria that cause stains and odors.
- [{Kills} {Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}] [{bacteria that cause odors} {odor caused by bacteria} {odor causing bacteria} {odors} {stains} {mold} {mildew}{the growth of odor causing bacteria}] [{Kills}{Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}] [{bacteria that cause odors} {odor caused by bacteria} {odor causing bacteria} {odors} {stains} {mold} {mildew} from attaching to the fabric surface where they can live and grow.
- [{Kills}{Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}] [{bacteria that cause odors} {odor caused by bacteria} {odor causing bacteria} {odors} {stains} {mold} {mildew} that cause stains within the fabric.
- [{Kills}{Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}] [{the growth of odor causing bacteria}]
- [{Kills} {Attacks} {Eliminates}{Controls} {Prevents} {Inhibits the growth of} {Destroys}] bacteria that cause odors and stains other detergents leave behind
- [{Kills}{Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}] [{bacteria} {molds} {fungi} that cause stains, odors and product degradation.

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- {{Kills}{Attacks} {Eliminates}{Controls} {Prevents} {Inhibits} {Destroys}} the growth and spread of {{bacteria} {molds} {mildew} {fungi} that cause stains, odors}} {for up to 3 months} {or} {in between {{laundryings} {or} {washes} {loads} {washing}}}.
- Kills odor causing bacteria
- {{Kills} {Eliminates} {Controls} {Prevents} {Destroys} {inhibits} {Resists}} {{lingering} {hidden} odors {from}{in}{on}{your}{laundry}{formula}{diaper}{spit-up} {and / &} {sweat} {workout} {food} {left} {behind} {by} {baby}{children}{kid(s)} {messes} {sweaty}{gym clothes}{active wear}{sportswear}
- Leaves an invisible barrier that prevents future stain and stink
- Leaves your washing machine smelling fresh
- Leaves your washing machine odor free
- Long live your laundry.
- Odor causing bacteria removing {{fabric conditioner} {in was fabric care} {fabric protector}}
- Odor eliminating.
- {{Preserves} {Protects}} fabric performance and longevity
- {{Preserves} {Protects}} stretch and wickability
- Prevents deterioration to fabrics caused by bacteria, mold and mildew that cause stain and odors
- Prevents odor causing bacterial growth by eliminating the bacteria that cause odor and providing protection from regrowth for up to 90 days
- {{Prevents} {Inhibits} {Eliminates}} colonization of {unwanted} microorganism {odor causing bacteria} on fabrics
- Prevents odors with technology, not perfumes
- Prolongs the life of the fabric.
- Protects and cares for {{Performance Fabrics} {Activewear} {Laundry} {Clothing} {workout wear} {high tech fabrics}}
- Preserves and Protects {{clothes} {fabrics} {fibers} {activewear} {sportswear} {bedding} {sheets} {towels} {gear} {performance wear} {with} {odor control} {stain control} {technology}}
- Prevents future stink
- Protects and provides a continuous defense against the growth of bacteria that cause stains and odors.
- Protects fabrics and keeps clothes feeling new.
- Protects fabrics and makes them easier to clean, helps them last longer, and keeps them fresher in between cleanings.
- Protects {laundry} {shirts}{pants} {yoga pants} {socks} {athletic socks} {running shoes} {running gear} {workout gear} {synthetic fabrics} {lycra} {polyester}
- Protects your activewear from odor causing bacteria
- Protects your clothing and fabrics from bacteria that cause odors and stains for up to {{90 days} {3 months} {{6} {to}{8} weeks}}] {in between {{laundryings} {or} {washes} {loads} {washing}}}.
- Protects your clothing and fabrics from bacteria that cause odors and stains
- Protects your fabrics and gear from odor causing bacteria
- {{Provides} {Creates}{Builds}} an {invisible}antibacterial barrier to inhibit the growth of {bacteria that cause odor} {odor caused by bacteria} {odors} {stains} {mold} {mildew}
- Provides surface protection to inhibit bacteria, mold and mildew that cause stain and odors
- Protects the investment in your {high-performance} activewear
- Protects the performance of your activewear
- Protects your fabrics from odor causing bacteria
- {Rids} {sports}{wear}{synthetic} {fabrics}{cotton}{lycra}{microfiber}{nylon}{polyester} of {smelly}{body}{odors}{odor causing bacteria}
- Safe for all washing machines, including HE {high efficiency} Includes HE LOGO
- Safe for {Performance Fabrics} {Activewear} {Laundry} {Clothing}{workout wear}{high tech fabrics}
- Safe for Whites and Colors
- Safe and gentle for all washable fabrics
- Softens and Protects {Performance Fabrics} {Activewear} {Laundry} {Clothing}{workout wear}{high tech fabrics} {and cares for} {Performance Fabrics} {Activewear} {Laundry} {Clothing}{workout wear}{high More protection and performance
- Suitable for {frequent} {daily} {everyday} use

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- Suitable {for}{to} use on {most} {fabrics} {baby's clothes} {kid's clothes} {whites} {and / &} {colors}
- Suitable for both {high efficiency} {HE} {and / &} {regular}{standard}{conventional} {washers}{washing} {machines}
- {Suitable}{Designed}{Formulated} {for}{to} {with}{use} {on} {sweat}{moisture}{wicking} {technology} {fabrics}{fibers}{clothing}{active wear}{sportswear}{gym} {clothes} {sports} {uniforms}{yoga pants}{gym}
- {shorts}{shirts} {tank tops}{socks} {sports bras}
- Treats stains and discoloration caused by sweat and odor
- {This product} Treats, it does not cover-up
- This product [{preserves} {protects} {prevents the deterioration and/or wear of} [{wicking} {wickability} {sweat wickability} {moisture control} {breathability} {performance technology} {absorbency}] {stretch} {elasticity} {color} {colorfastness}{pilling}] of {high performance} {tight knit}{activewear}{sportswear}] {fabric} {clothing} {gear} {gym clothes}, {towels} {bedding} caused by [{odor causing bacteria}{fungi {mold and mildew}] {algae} {odor-causing bacteria,} {bacteria which cause staining and discoloration}]
- This product Conditions {and} {/} {&} {soften(s)} fabrics
- Un-Stink your stuff
- Used in the rinse cycle to eliminate any odor causing bacteria left behind during the wash
- {Used} by {Moms} {Parents} {Dads} {Teachers} {professional athletes} {coaches}
- Wash your workout out
- Washes away the residue other detergents leave behind.
- When applied to [{fabric} {hard surfaces} {soft surface}] creates an antibacterial coating that inhibits the [{growth of bacteria} {that cause [{odors} {mold} {mildew}]]
- Works {effectively}{even} {at}{in} {low temperatures} {cold water}
- Works in cold water
- Works in all water temperatures

{Packaging Marketing}

- {Bonus} {Great} {Trial} {Trial Size} {Value} {Pack} {Size}
- {Child resistant cap}
- Cleans and protects your laundry
- {Convenience} {Convenient} {Economy} size
- [{Easy} {Convenient} {Simple}] to [{use} {handle} {grip}]
- Easy pour {bottle} {container} {with dosing cap} {spout}
- Free Sample
- Leaves clothes [{smelling} {feeling}{performing}] [{fresh} {like} {new} {like the day you bought them}]
- No mess dosing cap
- [{Odor control} {stain control}] technology
- Please Recycle. Includes LOGO

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its label.

FOR USE AS AN ANTIMICROBIAL* UNDER EPA REGULATIONS

FOR COMMERCIAL APPLICATIONS IN HOMES, OFFICES, AUTOMOBILES AND INSTITUTIONS AND FOR INDUSTRIAL USE ONLY, This product is registered as a microbiostatic agent for material preservation; neither this product nor the articles treated with this product may state or imply any public health claims. Articles or substances treated with this product will be exempt from FIFRA regulation pursuant to 40 CFR 152.25(a) if the intended use for incorporating this material into a treated article or substance is for the protection of the article or substance itself.

PROTECTION OF FINISHED PRODUCTS AND INTERMEDIATES: HE 4005 Antimicrobial* can be used as an antimicrobial* additive in (1) finished products and formulations listed below at levels consistent with their listing; and (2) intermediate concentrations up to 5% by weight in formulations intended for further processing in an industrial environment into the finished products and formulations listed below consistent with the permitted finished product concentration.

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APPROVED USES: HE 4005 Antimicrobial* may be applied to or incorporated into manufactured products listed below for use in industrial, institutional, commercial or residential locations for non-food contact uses. And for use as an antimicrobial* preservative under EPA and FDA Regulations to preserve finished food contact articles*

Plastics, fiberglass, metals, glass, wood, ceramics, stone, sand, natural materials, composites: Including air filters for furnaces, air conditioners, air purification devices, automobiles, and recirculating air handling systems; aquarium filters; automotive and vehicular parts; roofing materials (tiles, shakes, shingles, granules, stone, membranes, felt, underlayment and synthetic overcoats); building materials and components (including siding, wallboard, wood and wood composites, insulation and non-food contact cabinetry); ceiling tiles; concrete products; paints and coatings, thin films, mastics and sealants, cementitious materials (including caulk, grout and cement and grout premixes); non-food contact conveyor and humidifier belts; non-food contact countertops; fiberglass ductboard for air handling systems; floor covering; flooring; general purpose (non-food contact) containers; furniture; bathroom and non-food contact kitchen hardware; mats; plumbing supplies and fixtures; sheet and formed glass; silica sand (for use in swimming pool filters)

Fibers, fabrics (natural and synthetic, woven and non-woven), leather and household materials (natural and synthetic): Including buffer pads (abrasive and polishing); mattress cover pads, filling and ticking; pillow covers; sheets; blankets; bedspreads; fiberfill for upholstery, apparel, recreational gear, quilts and pillows; curtains; draperies; carpet and carpet underlay; rugs; upholstery; towels; shower curtains; toilet tank and seat covers; wall covering fabrics and wallpaper (including vinyl) for non-food contact surfaces; umbrellas; fire hose fabric; nonwoven disposable diapers; wiping cloths for non-food contact surfaces; pre-moistened towelettes for non-food contact surfaces and tissue wipes (these do not impart pesticidal properties); apparel including outerwear, sportswear, sleepwear, socks, hosiery, undergarments, gloves and uniforms; footwear (boots, shoes and components); sports equipment and athletic gear; cloth for sails, ropes, tents and other outdoor equipment; sand bags; tarps; awnings; book covers; pictures.

HOW TO USE:

MSDS INFORMATION: BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET CAN BE OBTAINED BY WRITING TO GELEST, INC. OR BY CALLING (215) 547-1015. A SAFETY DATA SHEET FOR A TYPICAL USE DILUTION AQUEOUS SOLUTION IS ALSO AVAILABLE.

Wear goggles or face shield, protective clothing, and rubber gloves when handling the material. Use with proper ventilation.

HE 4005 Antimicrobial* can be applied to organic and inorganic surfaces as a dilute aqueous solution to give 0.01 to 1.0 percent by weight of active ingredients. Aqueous solutions can be prepared by simply adding the antimicrobial*agent to water with stirring. NOTICE: Poor agitation when adding this silane to water can result in locally high concentrations, which may form gel particles. When in water, particles of HE 4005 Antimicrobial* will swell and become dispersed in water. This process can be sped up by increasing the temperature of the water to 160-190° F. Surfaces can be treated with the aqueous solution by brushing, dipping, soaking, or spraying until adequately wet. After applying treatment, the surface should be allowed to dry at temperatures from ambient to a maximum of 160°C (320° F) to effect complete curing of silanol groups and to remove water or solvents. Curing of polymer may be accelerated or enhanced with heat or catalysis. For each application, determine optimum application and drying conditions, such as time and temperature before use. If desired, reapply antimicrobial* if odor, staining and discoloration due to bacteria, mold or mildew occur.

Incorporate HE 4005 Antimicrobial* directly into formulations used to make end-use products, or dilute with water or alcohol and then apply it to the organic and inorganic surfaces to give 0.01 to 1.0 percent by weight of active ingredient.

HE 4005 Antimicrobial* can be diluted in industrial, institutional or commercial water based formulas used to treat clean items. Concentrate may not be used in Residential locations. Only manufactured product treated with the antimicrobial* concentrate to deliver 0.01% to 1.0% by weight of dry fabric may be used in residential locations.

Washable Linens, Draperies, Fabric, Bedding and Apparel:

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Always treat only clean items and use only fresh rinse water.

Wash Tub: HE 4005 Antimicrobial* can be diluted in water based formulas used to treat clean items. Use wash basin or tub big enough to completely soak the item you are treating. Add an appropriate amount of solution to treat the textile or apparel with 0.01%-1.0% by weight of dry fabric. Completely submerge items in solution for 3 minutes. Remove items and dry. Test for staining and color-fastness of fabrics by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. The substrate can be dried at room temperature or in clothes dryer at the appropriate setting for the items.

Washing Machine: HE 4005 Antimicrobial* can be diluted in water based formulas used to treat clean items during the softening/rinse cycle. Solution should be optimized to achieve between 0.01-1.0% of active ingredient by weight of dry fabric. Run the full softening/rinse cycle to treat the fabrics, then allow to dry overnight or use a dryer under the appropriate heat setting for the fabrics being treated. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application.

For treating silica sand: Treat by spraying sand with dilute solution of product, or immersing sand into dilute solution of product (to provide up to 0.01% active ingredient by weight). After applying treatment, allow sand to cure at temperatures from ambient to a maximum of 160°C (320° F) to effect complete curing of silanol groups and to remove water or solvents.

***FOR USE AS AN ANTIMICROBIAL* TO PRESERVE FINISHED FOOD CONTACT ARTICLES SUBJECT TO FDA REGULATIONS**

Incorporate HE 4005 Antimicrobial* as an antimicrobial* additive at or below the indicated maximum concentration into the polymeric manufactured products listed below that are used for manufacturing, packing, packaging, transporting, handling and/or holding food if such use is not intended to have any antimicrobial* effect in the food itself. Do not incorporate HE 4005 Antimicrobial* into any food or drinking water contact application listed on this label unless the substance is approved, with associated use conditions, for food contact in **21 CFR 174-186** (inclusive) as amended, or in the United States Food and Drug Administration's Food Contact Substance Notification System, as amended.

This Food Contact Substance (FCS) can be used as an additive without food type or temperature limitation in food preparation surfaces (where the FCS is either incorporated into the resin, a food contact laminated layer, or applied to the surface as part of a coating). The FCS may be used at a maximum use level of 1 weight percent of the resin, laminate, or coating.

Use: Food contact coatings, films and laminates

Products: Appliances and equipment, barrier fabrics, building materials and components, collection and storage equipment (such as conveyor belts, piping systems, silos, tanks and process vessels), cookware, countertops, food wrap (including coated deli paper, coated meat interleavers and plastic wrap), general purpose containers, glazing for cement tile, glazing for vitreous china used in plumbing fixtures (such as sinks and countertops), industrial equipment, natural and synthetic fibers and fabrics, packaging, paper products (such as wipes, tissues, wall coverings, towels), plastic film, sinks

Maximum Concentration: 1% active weight percent of the resin, laminate, or coating.

Polymeric tubing for the transfer of beverages. The FCS may be used at a maximum use level of 1 percent of the finished tubing.

Use: Food contact molded plastic parts

Products: Beverage dispensing equipment tubing, beverage processing equipment tubing

Maximum Concentration: 1% active weight percent of the finished tubing

Repeat use activated carbon water filters. The FCS may be used at a maximum use level of 0.25 weight percent of the carbon block.

Use: Water filter

Products: Activated carbon water filters

Maximum Concentration: 0.25% active weight percent of the carbon block

STORAGE AND DISPOSAL

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Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in original, tightly closed container in an area inaccessible to children and away from food or feed. HE 4005 Antimicrobial* is moisture sensitive. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), HE 4005 Antimicrobial* has a minimum shelf life of 24 months from date of shipment.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

{The appropriate container handling statement below will be selected}

CONTAINER HANDLING:

[For containers less than or equal to 5 gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[For containers greater than 5 gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{Lot code may appear on either the container or label}



GELEST, INC.
11 East Steel Road, Morrisville, PA 19067
215-547-1015

MADE IN U.S.A.

NOTICE: GELEST, INC. warrant that the product conforms to its chemical description and is reasonably fit for the purposes stated in the labeling when used in accordance with directions under normal conditions of use; but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to written instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. GELEST, INC. **SPECIFICALLY DISCLAIM ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.**

[Optional Graphic – following graphic may or may not appear on label]



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