

MICROSTATIC

ANTIMICROBIAL FINISH PROTECTION

Provides an invisible, durable micro biostatic finish and anti-static properties to surfaces

Active Ingredient U.S. EPA Number:
48937-1 (EPA Est. 048937-NC-001)

Type: Silane Quaternary Ammonium

Description:

- ◇ Antimicrobial is a 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride
- ◇ Imparts a durable antimicrobial finish to the surfaces of a wide variety of substrates
- ◇ It is leach resistant & non-migrating technology and is not consumed by microorganisms
- ◇ Benefits:
- ◇ Designed specifically with a non-flammable solvent system for easy dispensability.
- ◇ Effectively inhibits the growth of mold and mildew, algae and bacteria on various surfaces
- ◇ Protects against microbial deterioration, discoloration and odors

NON-FUGATIVE

The silane quat technology is non-fugative, unlike products such as triclosan. Fugitive products create “zones of inhibition” . On the edges of the zones, the fugitive antimicrobial is much weaker than in the inner part of the zone. In these “weak areas” of the zone, the bacteria is not readily destroyed thus creating the possibility of the bacterial eventually mutating and becoming resistant to the antimicrobial. Triclosan is also a chlorinated solvent. Silane quat penetrates the cell wall of the bacterial which destroys the micro-organism.

NO-METALS

Another form of antimicrobial commonly used are heavy metals or derivatives that cause many problems from worker safety, unattended mining impacts on the environment, depletion of precious resources, wild-life & ecologically problems, effluent & water contamination and poor fiber affinity when used in long-bath cycles such as commercial washers.

ECO-FRIENDLY

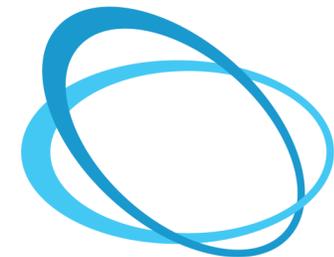
The silane quat technology is based on a coconut oil derivative which is a renewable resource.

For more information visit us

@www.cleansolutionsllc.com

MICROSTATIC

ANTIMICROBIAL FINISH PROTECTION



Continuous Antimicrobial Protection & Cleaning Power

The future of cleaning made
present today

- ◇ Provides LONG TERM FINISH PROTECTION on laundered fabric
- ◇ Inhibits the growth of bacteria, mold, mildew, algae & fungi
- ◇ Non-Leaching or “Bio-Static” Technology
- ◇ Does not wear off and is permanent between industrial washes
- ◇ Non-Flammable, VOC free and contains no heavy metals
- ◇ Eliminates the odors caused by human sweat on fabrics
- ◇ Controls on contact
- ◇ Safely breaks down harmful gram+ and gram- bacteria and other harmful microbes
- ◇ Significantly minimizes the growth of unwanted, fabric deteriorating and odor causing bacteria on hospital sheets, towels , pillow cases and scrubs

Exceeds TRSA Hygienically Clean Criteria

START CLEAN (4cfu –10cfu) biologicals

% Percent Reduction (Up to 99.99%)

MICROSTATIC antimicrobial fabric protection does not protect wearers or others against bacteria, viruses or other disease organisms. Wash all fabrics after use.

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An innovative antimicrobial finish protection technology. A water soluble molecular surface bond solution applied via industrial laundry facilities servicing the health care industry.

Provides LONG TERM finish protection over traditional disinfectants, sanitizers, bleaches, etc. which are capable of only SHORT TERM antimicrobial protection.

MODE OF ACTION

PERMANENTLY ACTIVE BETWEEN INDUSTRIAL LAUNDRY CLEANING

Top base of the molecule is the silane base. The silane base is the antimicrobial anchor. The antimicrobial is anchored by covalent bonds which are formed gradually through hydrolysis reactions that bond the antimicrobial permanently to almost any surface for crosslinking and polymerization with other molecules.

The middle part of the molecule is a centrally located positively charged nitrogen. It plays an important role in the active nature of the antimicrobial. Certain cell walls of microbes are negatively charged, when in close proximity, these microbes are drawn into the active surface of the antimicrobial and controlled. A pulling down action towards the center point occurs. The negative and positive charge also naturally create an electro-static blow to the offending microbes.

The Top of the Chain creates an edge of defense to penetrate offending microbes. The long molecule chain acts like a spike that punctures the cell membranes of any microbe coming in contact with it.



APPLICATION

- Applied in a single stage of wet finish process which offers an superior affinity to fabric.
- A unique coating process allows the fabric to go through a chemisorption process when delivered and comingled with the industrial wash load.
- An ion exchange occurs when the cation of the silane quat ammonium compound replaces protons from the water on the surface enabling a homopolymerize effect on the fabric itself. Producing a non-leaching technology that delivers permanent protection between washings.



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The future of cleaning made present today. MICROSTATIC is an intelligent self cleaning technology delivering a modern approach in fabric care. Keeping fabrics cleaner & fresher between washings by offering long-term defense against microbial growth that causes premature fabric deterioration, staining and malodors. Providing maximum product protection for patients and medical staff working in hospitals, clinics, urgent care centers and other specialized healthcare facilities.

Leading edge commercial laundries incorporating MICROSTATIC technology into their washing systems can expect to deliver a smart, eco-friendly solution which provides customers post washing microbial protection, increased fabric life & freshness, improved clean-ability and peace of mind.

For more information visit us
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BLUESHIELD PROTECTION
www.blueshieldpro.com

