



DEFENDER

The Patented Technology that
**CLEANS, DISINFECTS,
KILLS* and PROTECTS***
IN ONE SIMPLE STEP!

KILLS VIRUSES*
On Hard, Nonporous
Environmental Surfaces



PROVIDES CONTINUOUS, LASTING PROTECTION AGAINST HARMFUL MICROBES



DEFENDER
DISINFECTANT & ANTIMICROBIAL AGENT



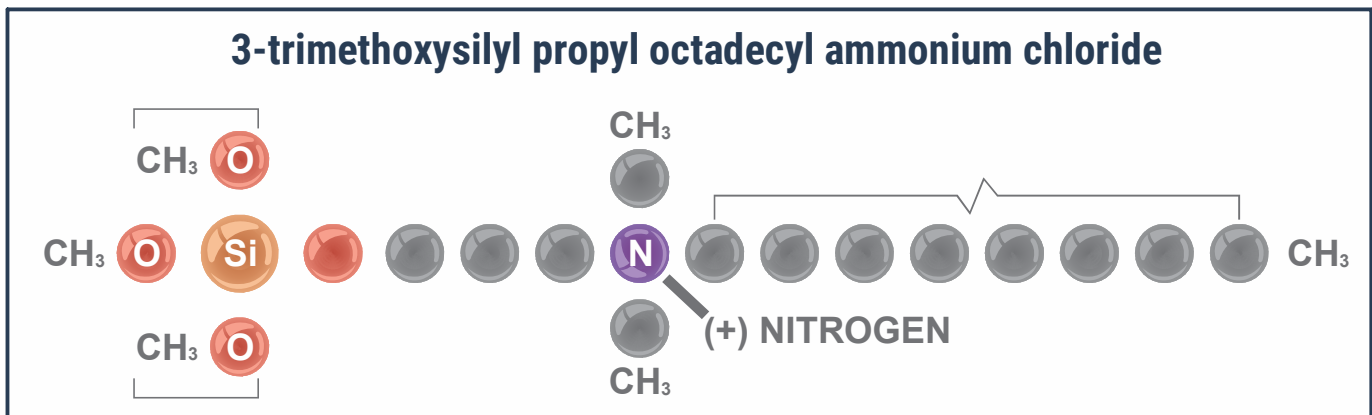
DEFENDER

The world's first patented water-based, durable, non-toxic, non-flammable, non-leaching & non-migrating (after it is bound), odorless, colorless disinfectant and microbiostatic agent.

- ▶ First, **DEFENDER** cleans and disinfects the sprayed surface
- ▶ Once our patented antimicrobial formula dries on the surface, it provides continuous protection on treated surfaces.

HOW DOES **DEFENDER** CONTINUOUS ANTIMICROBIAL PROTECTION WORK?

The basic technology of our antimicrobial formula relies on the complex molecular chain of:



The silane base acts as an anchor, securing the antimicrobial to almost any hard surface or substrate.

The second part of the molecule is the centrally located, positively charged Nitrogen which keeps the antimicrobial in a vertical position and also plays a key role in attracting and destroying microbes. Cell membranes of microbes are negatively charged. When microbes approach our antimicrobial compound, they are drawn in towards the active surface and killed.

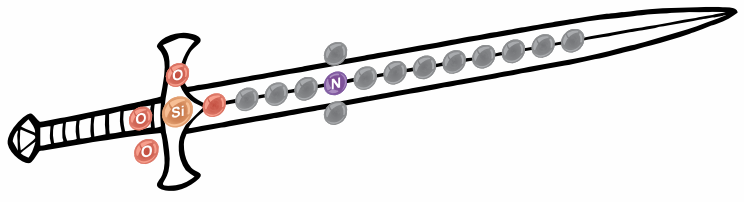
microbe (noun) mi·crobe | \ 'mī-,krōb

: microorganism, germ

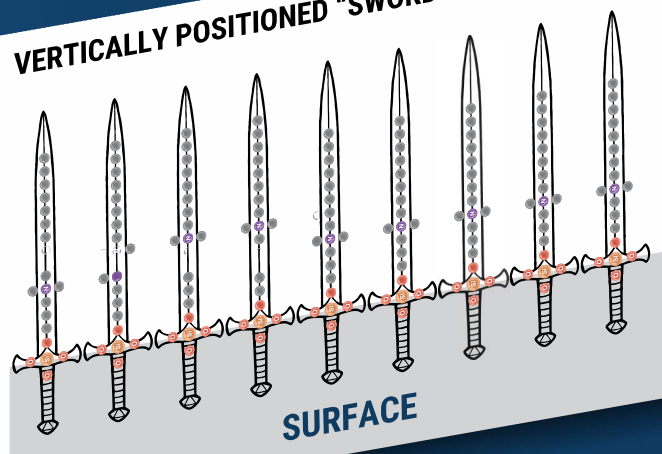
examples: viruses, bacteria, mold, protozoa, fungus, algae

The third segment of our compound is the long octadecyl chain which acts like a sword that pierces the cell membrane of all microbes that come into contact with it.

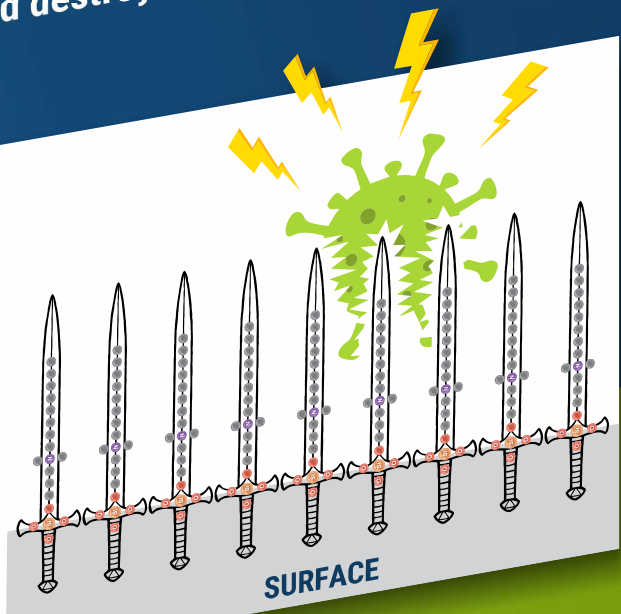
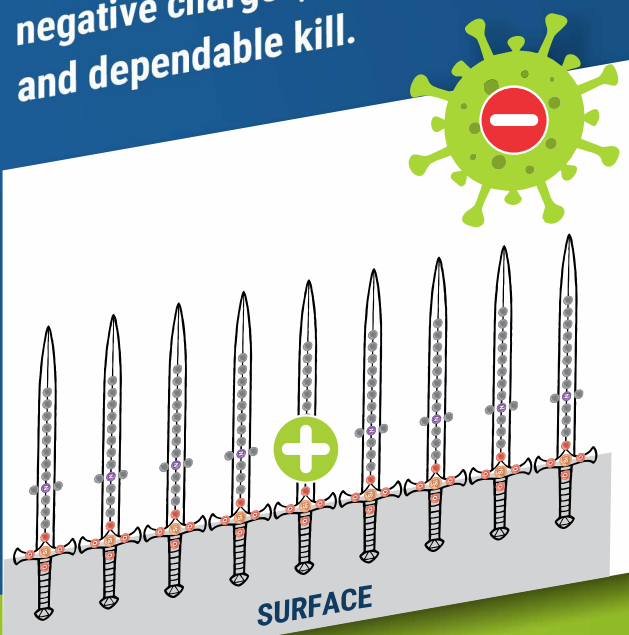
THE MOLECULAR 'SWORD'



VERTICALLY POSITIONED "SWORDS" ON SURFACE



These three parts of our patented antimicrobial technology combine to give it its unique and effective protection. As microbes come into contact with a treated surface, they are first punctured by the antimicrobial 'sword', or long molecular chain. The magnetic attraction between the positively charged Nitrogen and the negatively charged cell membrane draws the microbes even further down onto the 'sword'. This alone can end the life of the microbe but, upon contact between the positive and negative charges, the cell membrane is electrocuted and destroyed delivering a consistent and dependable kill.



Since this process transfers nothing from the antimicrobial to the cell and suffers no alterations to its makeup, the strongly bonded blanket of antimicrobial 'swords' stand ready for the next wave and can continue to work at full strength indefinitely.

AREAS OF USE:

Use **DEFENDER** on hard, non-porous surfaces in:



Airports / Airlines



Transit / Subway



Schools / Universities



Nursing Homes



Office Buildings



Hotels / Hospitality



Restaurants / Retail

TYPES OF SURFACES

- Appliances
 - Bed Frames / Rails
 - Countertops
 - Cabinets
 - Chairs
 - Desks
 - Doorknobs
 - Floors
 - Garbage Cans
 - Hospital Scales
 - Medical Exam Tables
 - Non-Critical Medical Equipment
 - Outdoor Furniture
 - Showers
 - Sinks
 - Stethoscopes
 - Stoves
 - Tables
 - Tanning Beds
 - Telephones
 - Toilets
 - Walkers
 - Wheelchairs
- Other hard nonporous surfaces made of:**
- Glazed Ceramic
 - Finished Woodwork
 - Laminates
 - Metals
 - Plastic
 - Stainless Steel



Cross-contamination is a major housekeeping concern.
DEFENDER has been formulated to aid in the reduction of cross-contamination on treated hard nonporous surfaces not only in hospitals, but in schools, institutions, and industry.

Available in 32oz Spray Bottle,
1 Gallon, 5 Gallon, 55 Gallon, and 275 Gallon Sizes
For more information, visit antimicrobial-defense.com



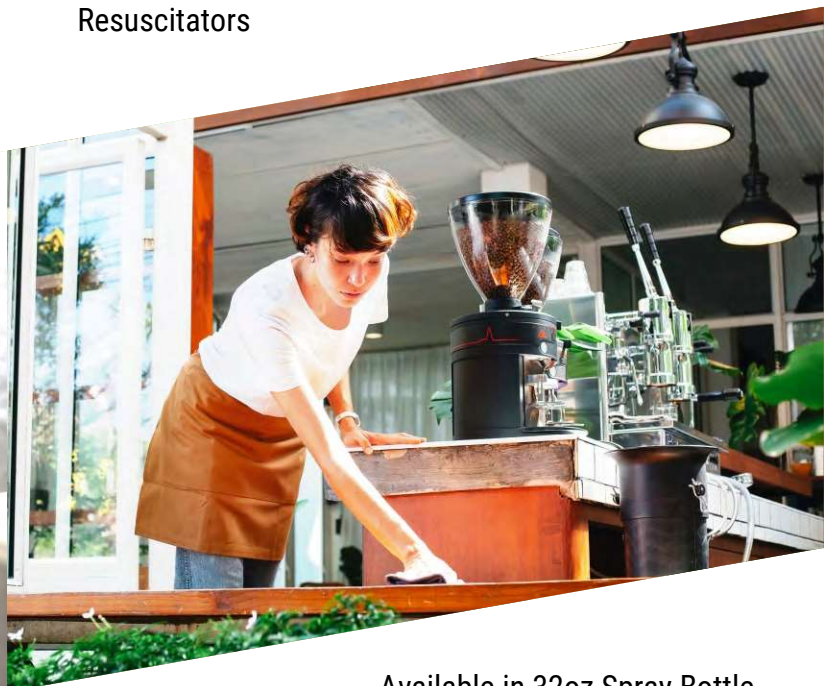
TYPES OF SURFACES

- Appliances, exteriors
- Bathroom fixtures
- Bathtubs Cabinets
- Cages
- Chairs
- Coils and drain pans of air conditioning
- Refrigeration equipment and heat pumps
- Conductive flooring
- Counters
- Countertop laminates
- Desks
- Doorknobs
- Floors
- Garbage cans
- Highchairs
- Kennel runs

- Microwave ovens, exteriors
- Outdoor furniture except cushions and wood frames
- Refrigerators, exteriors of
- Refrigerated storage and display equipment
- Showers
- Shower stalls
- Sinks
- Stoves
- Tables
- Tanning beds
- Telephones
- Toilets

- Toilet bowls
- Toilet bowl surfaces
- Tubs Tiles, glazed
- Ultrasonic baths
- Urinals
- Walls
- Whirlpool bathtubs
- Non-critical medical device surfaces
- Bed frames
- Bed rails
- Crutches
- Defibrillators
- Gurneys
- Non-critical medical equipment surfaces
- Medical Examining tables
- Lamps
- Rescue tools - Resuscitators

- Hospital Scales
- Stretchers
- Stethoscopes
- Walkers
- Wheel chairs
- **Other hard nonporous surfaces made of:**
 - Glazed ceramic
 - Glazed enameled surfaces
 - Glazed porcelain
 - Laminated surfaces
 - Metal
 - Plastic
 - Sealed stone
 - Stainless steel
 - Upholstery, vinyl and plastic
 - Woodwork, finished



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