

Product Performance

DISINFECT⁷ Sanitizer 500 is suitable for use on a wide variety of surfaces. In actual field use, it reduces contamination on commonly used materials of construction, including stainless steel, aluminum, painted and unpainted concrete, plastic, rubber, wood, and paper. Furthermore, it is no more damaging to these materials than is water. Even after repeated applications, there was no detectible buildup or tacky residue remaining after the treated surfaces had dried.

DISINFECT 500 also reduces airborne microorganism counts when applied via existing humidification or individual fogging equipment.

There have been no adverse effects reported in the hatch rate, growout rate, or general health appearance of fowl that were hatched and processed in DISINFECT 500-treated areas.

Antimicrobial Activity

The effectiveness of DISINFECT Sanitizer 500 can be seen in the AOAC Germicidal and Detergent Sanitizer Test. At the recommended use dilution (1:256), DISINFECT 500 completely destroyed test microorganisms in less than one minute, even in the presence of extremely hard water.

GMP

For Poultry Hatcheries and Animal Housing

DISINFECT⁷ Sanitizer 500 is a high-performance product specially formulated for use in poultry hatcheries and farm animal housing facilities.

Description and Special Features

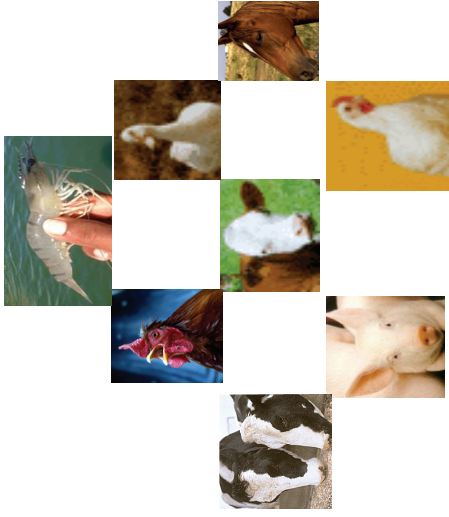
DISINFECT Sanitizer 500 combines the powerful antimicrobial action of glutaraldehyde with an effective synthetic detergent, and quaternary ammonium chloride. At its recommended use-dilution of 1/2 ounce per gallon of water (1:256), DISINFECT 500 has many important advantages,

- including:
 - | Surfactant action enhances cleaning.
 - | Ideal for sanitizing critical areas, such as hatchers and setters, as well as egg rooms, animal processing areas, farm equipment, and barns.
- ◆ Effective performance on a wide variety of construction materials.
- ◆ Effective against a broad spectrum of microorganisms.
- ◆ Functions well over a broad temperature range.
- ◆ All active ingredients are EPA-registered.
- ◆ Properly diluted solutions pose no detrimental effects to waste treatment systems.
- ◆ Compatible with metals that can tolerate exposure to water, thus avoiding etching, pitting, or scale formation.
- ◆ No tacky buildup on treated surfaces, eliminating the need for time-consuming and costly cleanup & removal.
- ◆ Not affected by hard water.
- ◆ Does not contain or release formaldehyde.
- ◆ Fast acting.

Authorized Distributor



DISINFECT 500



PACKAGING

1 Liter pail (Optional)

20 liter Plastic Pail

210 liter Plastic Drum

"A Dynamic Approach to Nutri-Agri Product Research and Technology Development"

What is Disinfekt 500?

The synergetic action of the quaternary ammonium chlorides combined with the glutaraldehydes yields efficacy performance which neither of these active ingredients can yield separately.

D.N.A. STRAND

The strength of the glutaraldehyde hydrophilic deactivation is its ability to bind itself to the proteins through their R-NH₂ groups. It has a very strong virucidal activity obtained by the cross-linking of the proteins of the naked (hydrophilic) viruses' capsid. It also combines with the nucleic acids contained in viruses (DNA/RNA). Bactericidal and fungicidal activities are due to the combination of glutaraldehyde with the proteic parts of the metabolic enzymes, and with the amino-acids. Being strictly hydrophilic, glutaraldehyde cannot cross the cell's lipidic membrane of the coating of lipophilic viruses. Glutaraldehyde can only act outside these microorganisms. DINATEC's unique combination formulation allows the glutaraldehyde to kill germs from the inside due to the "synergistic" effect of the highly tension-active quaternary ammonium chlorides. The quaternary ammonium chlorides provide lipophilic deactivation and are cationic tension active agents. The area of microorganism most affected by these active ingredients is the cell membrane. The quaternary ammonium chlorides cause changes in permeability that allow the escape of cell constituents and cause cells disorientation. These changes in permeability allow the glutaraldehyde to penetrate inside the microorganism.

PRODUCT DESCRIPTION

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4-Quaternary Ammonium Chlorides, plus Glutaraldehyde, plus TERPENOLS. Multi-active ingredients to give increased activity. At a recommended use dilution of 1:256 (2 oz./gal, 4 ml/l) DISINFECT 5007 is non-corrosive, non-irritating, and non-toxic.

PRODUCT SPECIFICATIONS

DISINFECT 500® is a quaternary/glutaraldehyde cleanser/disinfectant specially formulated for Poultry Hatcheries & Breeder/Growth Houses requiring thorough penetration and cleansing of soils on all surfaces. DISINFECT 500® combines the safest ingredients to provide an effective super-penetrating cleanser/disinfectant with synergistic activity.

DISINFECT 500® has superior cleansing/disinfectant activity in warm or cold, soft or hard water (as much as 1500 ppm CaCO₃) and performs especially well in areas containing high levels of organic matter.

DISINFECT 500® is extremely effective when used as a shoe and boot wash, and when washing all personnel and transport vehicles.

DISINFECT 500® has the pleasant smell of terpenols which masks the unpleasant smell of Glutaraldehyde.

Form	Liquid Concentrate
Foam	Moderate to High
Odor	Pleasant Pine

Effect on metals At dilution, safe on all surfaces

DISINFECT Sanitizer 500

Applications

- ▶ Setters ▶ Barns and farrowing areas
- ▶ Hatchers ▶ Processing areas & equipment
- ▶ Egg rooms ▶ General farm animal housing
- ▶ Tray washers ▶ Produce warehouses

Compatibility

The following materials were subjected to 25 spray/dry cycles at 25°C, without rinsing, with no detectable changes relative to duplicate materials sprayed with water.

- ▶ Aluminum ▶ Glazed Ceramic Tile
- ▶ Brass ▶ Unglazed Ceramic Tile
- ▶ Chrome-Plated Steel ▶ Linoleum Floor Tile
- ▶ Copper ▶ Latex Rubber
- ▶ Stainless Steel ▶ Polyethylene
- ▶ Glass ▶ Unpainted Wood

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