



# CASTLE® H-110™

**CLEANER • DISINFECTANT • DETERGENT • DEODORIZER  
FUNGICIDE (against pathogenic fungi) • \*VIRUCIDE  
MILDEWSTAT (on hard, non-porous, inanimate surfaces)**

For Hospital, Industrial, School, Restaurant, Bar, Tavern and Institutional Kitchen Use  
EPA Registration # 1839-169-64174

**APPROVED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)  
FOR USE AGAINST THE 2019 NOVEL CORONAVIRUS (COVID-19)**

**DESCRIPTION:** Castle® H-110™ is a phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, schools, food service establishments, restaurants, transportation terminals, office buildings, manufacturing facilities, retail business, and athletic/recreation facilities and sports stadiums where housekeeping is of prime importance in controlling cross-contamination from treated surfaces.

### **DIRECTIONS:**

**General Use:** Apply Castle® H-110™ to walls, floors, and other hard (inanimate), nonporous surfaces (such as tables, chairs, countertops, sinks, and bed-frames) with a cloth, mop, or mechanical spray device so as to wet surfaces thoroughly. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use-solution becomes visibly dirty.

**Sanitizing:** Allow surface to remain wet for 30-60 seconds.

**Disinfection:** To disinfect hard, non-porous surfaces, treated surfaces must remain wet for 10 minutes.

**For hospitals and nursing homes:** Add 2 oz. per gallon of water. The activity of Castle® H-110™ has been evaluated in the presence of 5% serum by the AOAC use dilution test and found to be effective against a broad spectrum of gram-negative and gram-positive organisms including:

*Pseudomonas aeruginosa, Staphylococcus aureus, Escherichia coli, Serratia marcescens, Klebsiella pneumoniae, Enterobacter aerogenes, Shigella dysenteriae*

Castle® H-110™ delivers excellent cleaning and germicidal effectiveness. It is effective against *Staphylococcus aureus* and *Escherichia coli*. The same AOAC tests used above to confirm suitable performance for hospitals were used.

**Fungicidal Performance:** Castle® H-110™ at 2 oz. per gallon is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities, etc.

**Virucidal Performance:** At 2 oz. per gallon use level, Castle® H-110™ was evaluated in the presence of 5% serum and found to be effective against the following viruses: Influenza A2/Hong Kong, Herpes Simplex, and Vaccinia on inanimate environmental surfaces. Sanitizing Non-Food Contact Surfaces (such as floors, walls, tables, etc.): At 2 oz. per gallon use-level, Castle® H-110™ is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae* in the presence of 5% serum on porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.

**Mold and Mildew Control:** At 1 oz. per gallon, Castle® H-110™ will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat when mildew growth returns.

**PACKAGING:** 1 Gallon  
5 Gallons

**SPECIFICATIONS:** Color: Blue  
Ph: 10  
Protect from freezing

