



# PINE-64

## Disinfectant Cleaner & Deodorizer

PINE-64 Disinfectant Cleaner and Deodorizer is a phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, schools, food processing plants, Supermarkets, food service establishments, office buildings, manufacturing facilities, lodging establishments, retail business, athletic/recreation facilities and convention centers where housekeeping is of prime importance in controlling cross-contamination from treated surfaces. This product is a one step neutral disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1, HIV-2, HBV and HCV) and inhibits the growth of mold and mildew and their odors when used as directed. This product when used as directed, is formulated to disinfect the following hard non-porous inanimate environmental surfaces: floors, walls, metal surfaces, stainless steel, tables, chairs, desks, bed frames, walls, cabinets, doorknobs, garbage cans, glazed ceramic tile, plastic surfaces, play equipment, exercise equipment, exercise and wrestling mats, shower stalls, bathtubs, toilets and urinals.

### ■ PHYSICAL PROPERTIES

APPEARANCE: Clear Yellow Liquid  
 SPECIFIC GRAVITY: 1.023  
 ODOR: Pine Scent  
 pH (Conc.): 5 to 7  
 FLASH POINT: N/A (WATER-BASED LIQUID)  
 ACTIVE INGREDIENTS  
 Octyl decyl dimethyl ammonium chloride.....1.627%  
 Dioctyl dimethyl ammonium chloride.....0.814%  
 Didecyl dimethyl ammonium chloride.....0.814%  
 Alkyl (50% C14, 40% C12, 10% C16) dimethyl-  
 benzyl ammonium chloride.....2.170%  
 INERT INGREDIENTS.....94.575%  
 Total.....100.000%  
 EPA REG. NO. 1839-169 EPA EST. NO. 74357-MO-01

### ■ SAFE STORAGE & HANDLING

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.  
 DANGER: KEEP OUT OF REACH OF CHILDREN.  
 CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. FIRST AID: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Do not give anything by mouth to an unconscious person IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. AGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. CONTAINER DISPOSAL - Non-refillable containers. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. PESTICIDE DISPOSAL: SEE CONTAINER LABEL FOR PROPER DISPOSAL INSTRUCTIONS.

### ■ DIRECTIONS

DISINFECTION - To disinfect inanimate, hard non-porous surfaces add 2 ounces of PINE-64 Disinfectant per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications, spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. For heavily soiled areas, a pre-cleaning step is required. To disinfect toilet bowls - Remove gross filth or soils from surfaces with bowl brush. Add 2 ounce of PINE-64 to the bowl water. Brush or swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush.

BACTERICIDAL ACTIVITY - At the 2 ounce per gallon dilution, PINE-64 demonstrates effective disinfectant activity against the organisms: *Pseudomonas aeruginosa* PRD-10, *Salmonella choleraesuis*, *Staphylococcus aureus*, *Staphylococcus aureus* (clinical isolate), *Escherichia coli*, *Escherichia coli* (clinical isolate), *Listeria monocytogenes*, *Shigella sonnei*, *Shigella flexneri* Type 2b, *Shigella dysenteriae*, *Staphylococcus aureus* subsp. *aureus*, *Staphylococcus epidermidis*, *Staphylococcus epidermidis* (clinical isolate), *Streptococcus pyogenes* (Clinical - Flesh Eating Strain BIRD M3), *Streptococcus pyogenes* Group A, *Xanthamonas maltophilia* (clinical isolate), *Vancomycin resistant Enterococcus faecalis* (VRE), *Methicillin resistant Staphylococcus aureus* (MRSA), and *Vancomycin intermediate resistant Staphylococcus aureus* (VISA).

\*VIRUCIDAL ACTIVITY - PINE-64 when used on environmental, inanimate, hard, non-porous surfaces exhibits effective virucidal activity against HIV-1, HIV-2, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (causative agent of fever blisters), Herpes Simplex Type 2 (genital), Influenza A2/Hong Kong, Vaccinia, Rotavirus, Human Coronavirus (ATCC VR-740, Strain 229E), Bovine Viral Diarrhea Virus (BVDV), Feline Leukemia, Feline Picornavirus, and Canine Distemper. Add 2 ounces of the product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid. KILLS HIV-1, HIV-2, HBV, and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings (Hospitals, Nursing Homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 or Type 2 (HIV-1 or HIV-2) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

MILDEWSTAT - To control mold and mildew (*Aspergillus niger*) and the odors they cause on pre-cleaned, hard, non-porous inanimate surfaces add 2 ounces of PINE-64 per gallon of water. Apply solution with a cloth, mop, sponge or hand pump trigger sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

### ■ PACKAGING

PINE-64 is available in 4x1 gallon cases, 5 gallon pails and 55 gallon drums.

### ■ ADDITIONAL INFORMATION

If you need additional information, please contact our corporate office at 816-471-3602. For a Material Safety Data Sheet go to [www.chemicaluniverse.com](http://www.chemicaluniverse.com).