What to Look For on a Quat-based Product Label

Disinfectants may have a range of uses and label claims describing their use as cleaners, sanitizers, and/or disinfectants. They may say: "For hospital, institutional and industrial use."

INGREDIENTS

- **Active Ingredients:** The active ingredients of the product are listed as percentages and are the chemicals responsible for the control of the microorganisms.
- **Other (or "Inert") Ingredients:** Inactive ingredients are often grouped into one statement and include items such as soaps or detergents, dyes or coloring agents, fragrances, and water.

Active Ingredients:
Octyl decyl dimethyl ammonium chloride...1.140%
Dioctyl dimethyl ammonium chloride.....0.456%
Didecyl dimethyl ammonium chloride.....0.684%
Alkyl (C_{14}, 50%; C_{12}, 40%; C_{16}, 10%)
dimethyl benzyl ammonium chloride.....1.520%
Other Ingredients.....96.200%
TOTAL.....100.000%

USE INSTRUCTIONS

- **The Directions for Use** section tells what the product controls, as well as where, how and when to use it. Some products may have multiple uses (i.e., cleaning versus disinfection). They may provide different dilutions and specify how long it takes for each solution to kill or control the targeted pathogens. This part of the label will also recommend the best application method to use (i.e., spray directly or wipe on surfaces).

Disinfectant Cleaner is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal* (including HIV-1, the AIDS Virus), fungicidal, and inhibits the growth of mold and mildew, and their odors, when used as directed.
Disinfectant Cleaner will disinfect, clean and deodorize surfaces in rest rooms and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.
Use **Disinfectant Cleaner** on washable hard, nonporous surfaces of bathroom fixtures, desks, floors, garbage cans, showers, tables, toilets & walls.

OVER

PATHOGENS IT CAN CONTROL

- Labels will list what microorganisms the pathogen can kill in different settings and with different dilutions. Quats will kill "enveloped" viruses such as Influenza A (which would be listed on the label). You can contact the manufacturer of a product to know whether or not a specific product would be effective against an emerging pathogen.

For Hospitals, Medical and Dental Offices, Nursing Homes and other Medical Facilities: According to the AOAC Use-Dilution Test, **Disinfectant Cleaner** is an effective hospital disinfectant in the presence of 5% organic serum against the following gram negative and gram positive organisms: *Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella enterica, Acinetobacter baumannii, Corynebacterium ammoniagenes, Enterobacter aerogenes, Enterococcus faecalis – Vancomycin resistant, Escherichia coli, ESBL Escherichia coli – (Extended spectrum beta-lactamase producing E. coli), Klebsiella pneumoniae, Pseudomonas cepacia, Salmonella schottmuelleri, Serratia marcescens, Shigella dysenteriae, Staphylococcus aureus Methicillin-Resistant (MRSA), Staphylococcus aureus – Vancomycin Intermediate Resistant – (VISA) and Streptococcus faecalis.*

For Schools, Public Rest Rooms, Athletic Facilities, Food Processing Plants, Food Storage Areas, Kitchens, Restaurants, Bars, Transportation Terminals Hotels Motels and Other Non-Medical Institutional and Industrial Uses. According to the AOAC Use- Dilution Test, **Disinfectant Cleaner** is an effective broad spectrum general disinfectant in the presence of 5% organic serum against the following organisms: *Staphylococcus aureus, Salmonella enterica, Brevibacterium ammoniagenes, Enterobacter aerogenes, Escherichia coli, Klebsiella pneumoniae, Salmonella schottmuelleri, Serratia marcescens, Shigella dysenteriae and Streptococcus faecalis.*

For *Virucidal Effectiveness: **Disinfectant Cleaner** is an effective virucide in the presence of 5% serum against the following organisms: *Influenza A / Brazil Virus, *Herpes Simplex Virus Type 1 and 2, *HIV-1 (AIDS virus) and *Vaccinia. Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).

Preparation of Use-Solution:

Disinfection (- Medical)(1:64)	2 oz. per gallon of water
Disinfection (- Non Medical)(1:128)	1 oz. per gallon of water
Virucide (1:128)	1 oz. per gallon of water
Heavy Duty Use	8 oz. per gallon of water

Experts note that all influenza and coronaviruses are genetic variants of the same virus and that their structures are basically the same, but it is important to always read the label to know what organisms the specific product has been tested against and has proven effective.

For a list of products formulated to kill COVID-19 and other emerging pathogens see the EPA's N list (https://cfpub.epa.gov/wizards/disinfectants/) and Q list (https://www.epa.gov/pesticide-registration/disinfectants-emerging-viral-pathogens-evps-list-q#evps).

QUATS EDUCATION PROGRAM

800-789-3300 WWW.QUATS.ORG

The Quats Education Program operates under the auspices of the Household & Commercial Products Association (HPCA)