

# Q.T.® Plus

HILLYARD  
ARSENAL®  
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A hospital-grade disinfectant/detergent, cleaner, sanitizer, fungicide, mildewstat, virucide, deodorizer that cleans and controls the hazard of cross-contamination from environmental surfaces. Q.T. Plus is designed for use on walls, countertops, fixtures, restroom and shower rooms, and other hard surfaces where disinfecting is a must. Active Ingredients: Octyl decyl dimethyl ammonium chloride 3.255%, Dioctyl dimethyl ammonium chloride 1.302%, Didecyl dimethyl ammonium chloride 1.953%, Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride 4.340%. Other Ingredients: 89.150%.

## Features & Benefits

- Higher pH removes soils ordinary neutral disinfectants cannot.
- Mild lemon fragrance.
- EPA registered disinfectant.

## Efficacy

Effective against: (Bacteria:)

Pseudomonas aeruginosa  
Staphylococcus aureus  
Salmonella enterica  
Acinetobacter baumannii  
Brevibacterium ammoniagenes  
Campylobacter jejuni  
Community Associated Methicillin-Resistant  
Staphylococcus aureus - CA-MRSA (NRS384)  
(USA300)  
Community Associated Methicillin-Resistant  
Staphylococcus aureus - CA-MRSA (NRS123)  
(USA400)  
Enterobacter aerogenes  
Enterococcus faecalis  
Enterococcus faecalis-Vancomycin Resistant (VRE)  
Escherichia coli  
ESBL Escherichia coli  
Klebsiella pneumoniae  
Legionella pneumophila  
Pseudomonas cepacia  
Salmonella schottmuelleri  
Salmonella typhi  
Serratia marcescens  
Shigella dysenteriae  
Staphylococcus aureus Methicillin-resistant (MRSA)  
Staphylococcus aureus Multi-Drug Resistant  
Staphylococcus aureus - Vancomycin Intermediate  
Resistant- (VISA)  
Streptococcus pyogenes  
Vibrio cholerae

Effective against: (Viruses:)

\*Hepatitis B Virus (HBV)  
\*Hepatitis C Virus (HCV)  
\*Herpes Simplex Virus Type 1  
\*Herpes Simplex Virus Type 2  
\*HIV-1 (AIDS virus)  
\*Human Coronavirus  
\*Influenza Type A / Brazil  
\*Norwalk Virus (Norovirus)

(continued top next column)

\*Rotavirus  
\*Respiratory Syncytial Virus (RSV)  
\*SARS Associated Coronavirus  
\*Vaccinia  
(Animal Viruses:)  
Avian Infectious Bronchitis Virus  
Avian Influenza (virus) (H3N2)  
Avian Influenza (virus) (H5N1)  
Canine Distemper Virus  
Feline Calicivirus  
Newcastle's Disease Virus  
Pseudorabies Virus

Effective against: (Fungi:)

Aspergillus niger  
Trichophyton mentagrophytes (the Athlete's Foot  
Fungus) (A cause of Ringworm)



## Safety

See material safety data sheet and product label for safety information, handling and proper use.

## HMIS

## Concentrate/RTU

Health	3/1
Flammability	0/0
Reactivity	0/0

## Technical Specifications

Color	Yellow
Scent	Lemon
Appearance	Clear
pH (concentrate)	12.00 - 13.00
Non-Volatile Matter	19.50 - 21.50%
Dilution Rate	1:128

## Availability

Item	Pack
HIL0082425	4 - 2.5 Liter Containers

## Registrations

EPA Reg. No. 6836-77-1658

HILLYARD

P.O. Box 909  
St. Joseph, MO 64502  
1-800-365-1555  
www.hillyard.com

This is an EPA registered disinfectant. Please refer to the actual container label for complete directions.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

#### Dilution:

Disinfection (1:128).....1 oz. per gallon of water

Disinfection (1:8).....16 oz. per gallon of water

Sanitizer (1:512).....1 oz. per 4 ¼ gallons of water (200 ppm active)

Virucidal:.....1-4 oz. per gallon of water

**Preparation of Disinfectant Use-Solution:** Add 1 oz. per gallon of water (1:128).

**DISINFECTION/VIRUCIDAL\*/FUNGICIDAL/MOLD AND MILDEW CONTROL DIRECTIONS:** Apply use-solution to hard, nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface, rub with a brush, sponge or cloth. Do not breathe spray. Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes.

Prepare a fresh solution daily or more often if the use solution becomes visibly dirty or diluted.

**For fungicidal activity:** Q.T. Plus 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 and exercise facilities. Q.T. Plus is a one-step fungicide at 1 oz. per gallon in 250 ppm hard water and 5% serum. At 1 oz. per gallon in 400 ppm hard water, Q.T. Plus must be used on pre-cleaned surfaces.

**For mold and mildew:** At 1 oz. per gallon, Q.T. Plus will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. Repeat treatment every seven days, or more often if new growth appears. **BACTERICIDAL STABILITY OF**

**USE-DILUTION:** Tests confirm that the use solution of this product, when stored in a sealed container such as a spray bottle, remains effective for up to one month. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

This product is not for use on medical device surfaces.

**TO CLEAN AND DEODORIZE:** Mix 1 oz. of Q.T. Plus per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**NON-ACID TOILET BOWL AND URINAL DISINFECTANT/CLEANER DIRECTIONS:** Remove gross filth prior to disinfection. **From Concentrate:** Add 1 oz. to the bowl. Use 4 oz. to kill Adenovirus Type 5 and type 7. Thoroughly brush or swab over exposed surfaces and under the rim with a cloth, mop or sponge. Allow to stand for 10 minutes and flush. **From Use Solution:** Empty toilet bowl or urinal and apply a 1 oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush. **For Heavy Duty Use:** Empty toilet bowl or urinal and apply a 4 oz. per gallon use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

**\*KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings 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 (HIV-1) (as associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OR HBV OR HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** Clean up must always be done wearing protective gloves, gowns, masks and eye protection.

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1 or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of Q.T. Plus.

**CONTACT TIME:** Leave surface wet for 1 minute (60 seconds) for HIV-1 and 10 minutes for HBV and HCV with a 1 oz. per gallon use-solution. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

**DISPOSAL OF INFECTIOUS MATERIAL:** Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**TO SANITIZE NON-FOOD CONTACT SURFACES:** Add 1 oz. of Q.T. Plus per 4.25 gallons of water to sanitize hard nonporous surfaces. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop or cloth or allow to air dry. Do not use in food preparation, food handling and food storage areas. This product is not to be used on glassware, dishware, cookware or utensils.

**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION DIRECTIONS:** For cleaning and disinfecting hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables, catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 1 oz. of Q.T. Plus per gallon of water (1:128) for a period of 10 minutes. Wipe or allow to air dry. Immerse all animal halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

**FARM PREMISE USE:** Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of 1 oz. of Q.T. Plus per gallon of water (1:128) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers with soap or detergent, and rinse with potable water before reuse.