

Cross-contamination is of major housekeeping concern not only in hospitals, but in schools, institutions, and industry. QC QUAT II

has been formulated to aid in the reduction of cross-contamination in these areas.

QC QUAT II is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal, fungicidal, and will prevent the growth of mold and mildew and their odors when used as directed.

QC QUAT II is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

When used as directed, QC QUAT II will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause mal odors.

#### Precautionary Statements

#### Hazards to Humans and domestic animals

### DANGER

Keep out of reach of children. Corrosive. Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed or absorbed through skin. Avoid contamination of food.

#### STORAGE AND DISPOSAL

- DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL
- OPEN DUMPING IS PROHIBITED
- DO NOT REUSE EMPTY CONTAINER

#### PESTICIDE DISPOSAL

PESTICIDE. SPRAY MIXTURE OR RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT.

#### CONTAINER DISPOSAL

TRIPLE RINSE (OR EQUIVALENT) THEN OFFER FOR RECYCLING OR RECONDITIONING, OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES.

#### GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

### QC QUAT II

Disinfectant-Cleaner-Sanitizer-Fungicide  
Mildewstat-Virucide-Deodorizer  
for Hospitals, Institutional and Industrial Use  
Effective in hard water up to 400 ppm hardness  
(calculated as  $\text{CaCO}_3$ ) in the presence of 5% serum  
contamination

#### Active Ingredients

Octyl decyl dimethyl ammonium chloride	3.255%
Dioctyl dimethyl ammonium chloride	1.828%
Didecyl dimethyl ammonium chloride	1.828%
Alkyl ( $\text{C}_{12}$ , 50%; $\text{C}_{13}$ , 40%; $\text{C}_{14}$ , 10%) dimethyl benzyl ammonium chloride	4.340%

#### Inert Ingredients

89.149%  
100.00%

KEEP OUT OF REACH OF CHILDREN

### DANGER

#### Statement of Practical Treatment

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

#### SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No.

EPA Establishment No.

Net Contents

QUAL-CHEM INDUSTRIES, INC. 2140 KASOTA AVENUE  
ST. PAUL, MN 55108

For Sale For Use And Storage  
By Maintenance Personnel Only

#### Directions for Use

#### GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

QC QUAT II is a proven "one-step" disinfectant-cleaner-sanitizer-fungicide-mildewstat-virucide which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.

Apply QC QUAT II to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks, tile, porcelain, and bedframes with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces for heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use solution becomes visibly dirty.

**Disinfection** -- to disinfect hard, non-porous surfaces, add 1 oz per gallon of water. Treated surfaces must remain wet for 10 minutes. The activity of QC QUAT II

has been evaluated in the presence of 5% serum and 400 ppm hard water by the AOAC use dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as represented by:

*Pseudomonas aeruginosa*  
*Staphylococcus aureus*  
*Salmonella choleraesuis*  
*Escherichia coli*  
*Streptococcus pyogenes*  
*Klebsiella pneumoniae*  
*Enterobacter aerogenes*  
*Salmonella schottmuelleri*  
*Streptococcus faecalis*  
*Shigella dysenteriae*  
*Salmonella typhi*  
*Serratia marcescens*

#### Fungicidal Control

QC QUAT II is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, showers and bath areas, exercise facilities, etc. at 1 oz/gallon.

#### Mold and Mildew Control

At 1 oz/gallon, QC QUAT II 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.

#### Virucidal Performance

At 1 oz per gallon use-level, QC QUAT II was evaluated in the presence of 5% serum and 400 ppm hard water and found to be effective against the following viruses: Influenza A/Brazil, Herpes Simplex and Vaccinia on inanimate environmental surfaces.

**Sanitizing Non-Food Contact Surfaces** (such as floors, walls, tables, etc.) At 1 oz per 5 1/2 gallon use-level.

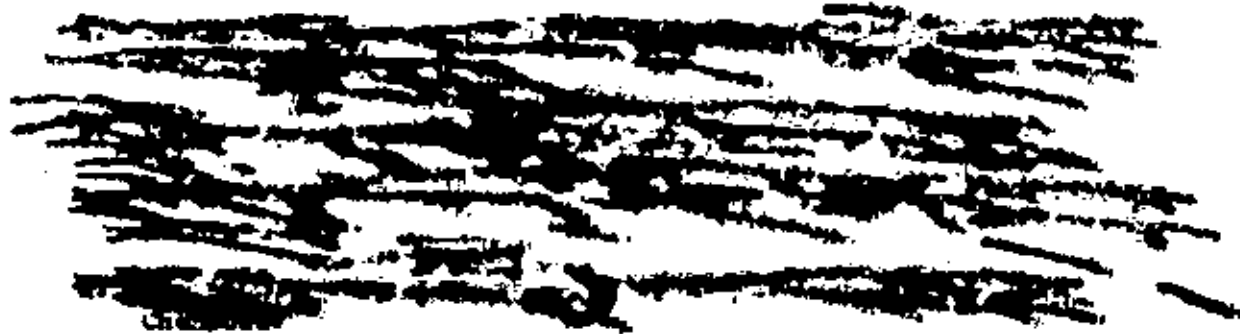
QC QUAT II is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae* on hard, porous and non-porous environmental surfaces. Treated surface must remain wet for 60 seconds.

2/82

<p>U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (PM-567) WASHINGTON, D.C. 20460</p> <p><b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input checked="" type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</p>	<p>EPA REGISTRATION NO. 46704-4</p>	<p>DATE OF ISSUANCE JUL 1972</p>
	<p>TERM OF ISSUANCE</p>	
	<p>NAME OF PESTICIDE PRODUCT QC Quat II</p>	
<p>NAME AND ADDRESS OF REGISTRANT (Include ZIP code)</p> <p>Qual-Chem Industries, Inc. 2140 Kasota Avenue St. Paul, MN 55108</p>		
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p>		
<p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p>		
<p>Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<p>This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you:</p>		
<p>1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.</p> <p>2. Make the labeling changes listed below before you release the product for shipment:</p>		
<p>a. Add the phrase "EPA Registration No. 46704-4."</p> <p>b. For the label size submitted, the STORAGE AND DISPOSAL heading and the Child Hazard Warning "KEEP OUT OF REACH OF CHILDREN" would require a 12 point type size minimum and the signal word DANGER (front panel only) would require an 18 point type size minimum.</p> <p>c. Our files indicate that the flash point of this product requires the following statement to be added:</p>		
<p>PHYSICAL OR CHEMICAL HAZARDS</p>		
<p>Do not use or store near heat or open flame.</p>		
<p><input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE</p>		
<p>SIGNATURE OF APPROVING OFFICIAL <i>[Signature]</i></p>	<p>DATE</p>	

BEST DOCUMENT AVAILABLE

3. As per phone conversation between the Agency and James Thalhuber and Dick Anderson on October 5, 1982, the following clarifications have been made to your Confidential Statement of Formula.



4. The confirmatory data submitted for the above referenced product are acceptable and have been assigned the Accession Number 248373.

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

*James H. Banks*  
for

John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767)

Enclosure