

MAR 25 1991

Essential Industries, Inc.
28391 Essential Road
Merton, WI 53056

Attention: Hector Gonzales
Director of Research

Gentlemen:

Subject: Quat 256
EPA Registration No. 3838-42
Your Submission Dated February 8, 1991

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

1. Submit and/or cite all data required for registration/ registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling: (label)
 - a. Delete the statement:

See reference sheet for complete list of pathogenic organisms.

Note: No reference sheet was submitted for review.

50975; I.V.G. I31-07. KEURIC: 03/11/91. 04/06/91. aw:DD:aw
CONCURRENCES

SYMBOL								
SURNAME								
DATE								

b. Revise:

Causes severe eye and skin damage.

to read:

Corrosive. Causes severe eye and skin damage.

c. Revise:

Adenovirus Type 2

to read:

Adenovirus Type 5.

d. Add to the precautionary section:

Wash thoroughly with soap and water after handling.

3. Make the labeling changes to the bulletin outlined below.

a. Delete: "EPA Registered"

Note: Endorsements not permitted.

b. Delete the word: etc.

c. Delete: "% Active (ASTM) . . . 30."

Note: The statement contradicts the label declaration.

d. Revise:

Herpes Simplex

to read:

Herpes Simplex Type 1.

e. Revise:

Influenza A₂ Asian


to read:

Influenza A₂/Japan.

4. Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.
5. A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, contact Valdis Goncarovs at (703) 557-3663.

Sincerely yours,

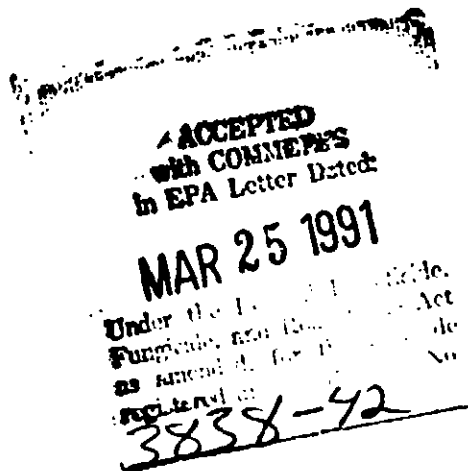
John E. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (N7505C)

QUAT 256

1:256

DISINFECTANT- DETERGENT

A SUPERCON™
E-Z MIX SYSTEM™
PRODUCT

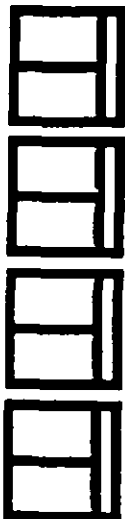


- **EFFECTIVE** — EPA -registered, phosphate-free concentrate cleans, deodorizes and disinfects.
 - **ECONOMICAL** — For institutional use in hospitals, nursing homes, food service establishments, food processing plants.
 - **DISINFECTS INANIMATE, NON-POROUS HARD SURFACES** — Use at 1/2 oz. per gal. on walls, floors, sink tops, toilet bowls, tables, chairs, bed frames.
 - **DEODORIZES** — Garbage storage areas, empty garbage bins, etc.
 - **CONTROLS** — Mold and mildew.
 - **FUNGICIDAL ACTIVITY AGAINST** — Trichophyton mentagrophytes (Athlete's Foot Fungus).
 - **VIRUCIDAL ACTIVITY AGAINST**—AIDS (HIV-1), Influenza A2/Asian, Herpes Simplex, Adenovirus type 5 and Vaccinia Virus.
 - **DISINFECTANT ACTIVITY AGAINST**—Pseudomonas aeruginosa PRD-10, Escherichia coli, Klebsiella pneumoniae, Salmonella schottmuelleri, Salmonella choleraesuis, Streptococcus faecalis, Shigella dysenteriae, Enterobacter aerogenes and Staphylococcus aureus.
- * **FOR DETAILS** — Regarding use dilution and precautionary statements, see direction label.

SPECIFICATIONS

Type	Quaternary Ammonium Disinfectant and Detergent
% Actives (ASTM)	30
Appearance	Clear Blue Liquid
Fragrance	Bland
Hot/Cold Water Solubility	Complete
Hard Water Tolerance	22 gr.
pH Concentrate	9.8
pH Use Dilution	9.0
Shelf Life	Minimum One Year
Freeze Thaw Stability	Fully Recovers
Viscosity in Centipoise	10 cps
Use Dilution*	1:256 (1/2 oz./gal.)
1 Gallon Makes 256 Gallons. R.T. U.	

Phosphate-Free



ESSENTIAL
Industries, Inc.

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Phone 414 538-1122 • FAX 414 538-1354

PH 31 3838-42

QUAT 256

DETERGENT/DISINFECTANT BLUE-ODORLESS

DIRECTIONS FOR USE

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

QUAT 256 has been designed to provide effective cleaning, deodorizing, sanitization and disinfection specifically for hospitals, nursing homes, schools, food processing plants, food service establishments, and other institutions where housekeeping is of prime importance in controlling the hazard of cross-contamination.

QUAT 256, when used as directed, is formulated to disinfect inanimate hard surfaces such as walls, floors, sink tops, toilet bowls, tables, chairs, telephones, and bed frames. For larger areas such as operating rooms, patient care facilities, and restrooms, this product is designed to provide both general cleaning and disinfecting.

QUAT 256 deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls, and other areas which are prone to odors caused by microorganisms.

In addition, **QUAT 256** sanitizes previously cleaned and rinsed non-porous food contact surfaces such as tanks, chopping blocks, counter tops, drinking glasses, and eating utensils.

DISINFECTION - To disinfect inanimate, hard surfaces add $\frac{1}{2}$ ounce **QUAT 256** per gallon of water. Apply solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid.

For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

To disinfect toilet bowls, flush toilet, add $\frac{1}{2}$ ounce **QUAT 256** directly to the bowl water. 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.

SANITIZATION - To sanitize previously cleaned and rinsed non-porous food contact surfaces prepare a 200 ppm active quaternary solution by adding 1 ounce **QUAT 256** to 5 gallons of water.

To sanitize immobile items such as tanks, chopping blocks, and counter tops, flood the area with a cloth or sponge making sure to wet all surfaces completely for at least 2 min. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items such as drinking glasses and eating utensils, immerse in a 200 ppm active quaternary solution for at least 60 seconds making sure to immerse completely. Remove and let air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

When used for sanitization of previously cleaned food equipment or food contact items, limit active quaternaries to 200 ppm. At this level **NO POTABLE WATER RINSE IS REQUIRED**. **QUAT 256** is an effective sanitizer when diluted in water up to 800 ppm hardness (CaCO₃).

BACTERICIDAL ACTIVITY - When diluted at the rate of $\frac{1}{2}$ ounce per gallon of water, **QUAT 256** exhibits effective disinfectant activity against the organisms: *Pseudomonas aeruginosa* PRD 10, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella schottmuelleri*, *Salmonella choleraesuis*, *Streptococcus faecalis*, *Shigella dysenteriae*, *Enterobacter aerogenes*, and *Staphylococcus aureus* and meets all requirements for hospital use.

MILDEWSTAT - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add $\frac{1}{2}$ ounce of **QUAT 256** per gallon of water. Apply solution with a cloth, mop or sponge 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.

At the $\frac{1}{2}$ ounce per gallon dilution, **QUAT 256** is also fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes*.

EFFICACY TESTS HAVE DEMONSTRATED THAT QUAT 256 IS AN EFFECTIVE BACTERICIDE, FUNGICIDE, AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).

CLEANER
DETERGENT
DEODORIZER
SANITIZER
MILDEWSTAT (on hard inanimate surfaces)

DISINFECTANT
FUNGICIDE (against Pathogenic fungi)
* VIRUCIDE

ACTIVE INGREDIENTS	
n-Alkyl (60% C ₁₂ , 30% C ₁₄ , 5% C ₁₂ , 5% C ₁₄) dimethyl benzyl ammonium chlorides	6.25%
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides	6.25%
INERT INGREDIENTS	87.50%
Total	100.00%

EPA REG. NO. 3838-42
EPA EST. NO. 3838-WI-1

KEEP OUT OF REACH OF CHILDREN DANGER

See side panels for additional precautionary statements.

NET CONTENTS

For Commercial, Industrial and Institutional Use Only

Essential Industries Inc.
MERTON, WISCONSIN 53080 • PHONE (414) 538-1122

* VIRUCIDAL ACTIVITY against environmental, inanimate effective virucidal activity common flu virus, Herpes Adenovirus Type 2 (causal virus representative of the

KILLS HIV ON (A-E-C) PREVIOUSLY SCILED W (hospitals, Nursing Home, Shellhood of sailing of in and in which the surfaces can be associated with the virus Type 1 (HIV-1) (see SPECIAL INSTRUCTIONS AGAINST HIV-1 OF SURFACES). PERSONAL PROTECTIVE fluids use disposable latex CLEANING PROCEDURES cleaned from surfaces of

CONTACT TIME: Allow DISPOSAL OF INFECTIO be autoclaved and disposed disposal.

See reference sheet

PRECAUTIONS

DANGER, KEEP OUT OF damage. Do not get in shield and rubber gloves contamination of food. F

STATEMENT
In case of contact, immerse 15 minutes. For eyes, clothing before reuse. If swallowed, drink egg white drink large quantities of water

Probable mucosal damage

STORAGE

DO NOT CONTAMINATE W STORAGE - Store in a dry than 120°F.
CONTAINER DISPOSAL container with water. Return and dispose of in a sanitary and local authorities. Flammable: stored, or if allowed to smoke.
PESTICIDE DISPOSAL - disposal of excess pesticide Law. If these wastes cannot contact your State Pesticide Waste representative at 8

ACCEPTED
with COMMENTS