

# FMB 210-15 QUAT

## concentrated germicide

FOR FORMULATION OF DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT MICROBICIDES, SWIMMING POOL ALGAEICIDES AND MILDEWICIDES.

<b>ACTIVE INGREDIENTS:</b>	
Didecyl Dimethyl Ammonium Chloride .....	50.0%
<b>INERT INGREDIENTS</b> .....	50.0%
<b>Total</b> .....	100.0%

**DANGER: KEEP OUT OF REACH OF CHILDREN**

### 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. 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.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes severe eye and skin damage. Do not get in eyes or on skin. Wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves when handling the concentrate. Harmful or fatal if swallowed. Avoid contamination of food.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply in marine and/or estuarine or fields. Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the Environmental Protection Agency.

#### PHYSICAL AND CHEMICAL HAZARDS

FMB 210-15 is a cationic germicide. Do not mix with soap or anionic materials. Do not use or store near heat or open flame.

### STORAGE AND DISPOSAL

This product must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. 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 rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

### CONTAINER DISPOSAL

Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult federal, state, or local authorities for approved alternative procedures such as limited open burning.

#### INSTRUCTIONS FOR FORMULATION

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

Formulators using this product are responsible for obtaining EPA registration for their formulated products. Refer to technical bulletin for FMB 210 Quats for instructions for formulations and other information.

EPA Reg. No. 300-120, EPA Est. No. 303-14-1

HL-10112

HL-13

Huntington Laboratories, Inc. Huntington, IN 46780 • Lansdale, PA 19346 • Dallas, TX 75217 • Hayward, CA 94543 • Brampton, Ontario

**ACCEPTED**  
WITH COMMENTS  
DEC 06 1982  
Under the Federal  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under  
EPA Reg. No. 41371-23

### FMB 210 QUAT

FMB 210 Quat series are designed for formulation of disinfectants, sanitizers, fungicides, water treatment microbicides, mildewcides, and swimming pool algaecides. FMB 210 Quats consist of a powerful quaternary system of didecyl dimethyl ammonium chlorides. This multi-purpose quat provides you with an efficient disinfectant-sanitizer system.

Huntington's Quality Control program consists of checking each and every batch made, chemically and microbiologically to insure the customer that every batch meets our rigid specifications.

<u>Chemical Composition</u>	<u>FMB 210-15</u>	<u>FMB 210-25</u>
<b>Active Ingredients:</b>		
didecyl dimethyl ammonium chloride	50%	50%
ethanol	10%	X
isopropanol	X	20%
<b>Inert Ingredients:</b>		
Water	40%	30%

**ACCEPTED**  
 with COMMENTS  
 in EPA Letter Dated  
**DEC 06 1982**  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under  
 EPA Reg. No. 47371-23

The FMB 210 Quats are effective against the representative gram-positive pathogen *Staphylococcus aureus*, the representative gram-negative pathogen *Salmonella choleraesuis*, and the representative hospital pathogen *Pseudomonas aeruginosa* in the presence of 5% organic serum.

FMB 210 Quats are technical chemicals designed for formulation of germicides. For example, disinfectant cleaners in hospitals and nursing homes, as disinfectant cleaners for use in schools and colleges, other public institutions and households.

FMB 210 Quats are for disinfecting precleaned hard, non-porous surfaces in 10 minutes with a recommended use solution of 500 ppm active quat for hospital use areas and with a recommended use solution of 400 ppm active quat for general use areas.

<u>Organism</u>	<u>FMB Quat</u>	<u>No. of Positives</u>	<u>No. of Carriers Tested</u>
<i>Pseudomonas aeruginosa</i>	500 ppm	0	180
<i>Staphylococcus aureus</i>	400 ppm	0	180
<i>Salmonella choleraesuis</i>	300 ppm	0	180

HOSPITAL DISINFECTION . . . . . 500 ppm quat  
 GENERAL OR HOUSEHOLD DISINFECTION . . . . . 400 ppm quat  
 SANITIZATION. . . . . 150 ppm quat

FMB 210 Quats are effective against Staphylococcus aureus and E. coli as a sanitizer in 800 ppm hard water as tested by the A.O.A.C. Germicidal and Detergent-Sanitizer Method at 150 ppm quat. In addition to use on food processing equipment and utensils, FMB 210 Quats may be used on food-contact surfaces in public eating places.

FMB 210 Quats are designed for formulation of sanitizer-cleaners for use in restaurants and bars, dietary areas, farms, USDA meat and poultry processing plants, and food processing plants.

FMB 210 Quats are sanitizing precleaned food contact surfaces in one minute with the recommended use solution diluted in water up to 800 ppm water hardness (calculated as CaCO<sub>3</sub>) at 150 ppm active quat. FMB 210 Quats are in compliance with 21 CFR §178.1010 (b)(17) and (c)(12).

For use in plants operating under the USDA Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products. FMB 210 Quats are for use as a sanitizer on all surfaces not always requiring a rinse. Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not required following use of these compounds on previously cleaned hard surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains which can adulterate or have deleterious effect on edible products. A potable water rinse is required following use of these compounds under conditions other than those stated above.

FMB 210 Quats are for use sanitizing dishes, silverware, glasses, and other food utensils at 150 ppm active. FMB 210 Quats may be used on food contact surfaces in public eating places. Do not rinse with potable water.

Eggs that have been sanitized with FMB 210 Quat shall be subjected to a thorough potable water rinse only if they are to be immediately broken for use in the manufacture of egg products.

FMB 210 Quats are for use to sanitize the udders, flanks, and teats of dairy cows. Do not rinse with potable water. Use a fresh towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

FMB 210 Quats have been tested for ten different nitrosamines including n-nitrosodiethanolamine (NDEL). It was determined that the FMB 210 Quats contained less than 20 parts per billion (ppb) and for the other nine nitrosamines FMB 210 Quats contained less than 100 ppb.

**ACCEPTED**  
 with COMMENTS  
 in EPA Letter Dated  
**DEC 06 1982**  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under  
 EPA Reg. No. **47311231**

Formulators using this product are responsible for EPA registration and USDA authorization for their formulated products. For technical service and registration assistance, contact the Chemicals Division at Huntington Laboratories. A complete registration package is available upon request.

**DANGER: CORROSIVE:** Causes severe eye and skin damage. Do not get in eyes or on skin. Wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves when handling the concentrate. Harmful or fatal if swallowed. Avoid contamination of food.

**STATEMENT OF PRACTICAL TREATMENT**

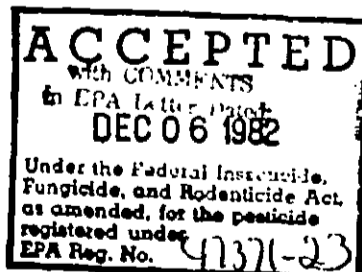
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician 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.

Consult the label for other instructions and precautionary statements before use of FMB 210 Quats

FMB 210-15 Quat      EPA Reg. No. 303-129  
FMB 210-25 Quat      EPA Reg. No. 303-130

H&S Chemicals Division  
970 East Tipton Street  
Huntington, Indiana 46750



HS-1

47371-23

06 DEC 1982

H & S Chemicals Division  
970 East Tipton Street  
Huntington, IN 46750

Attention: Mr. Richard Sheets

Gentlemen:

Subject: FMB 210-15 Quat  
EPA Registration No. 47371-23  
FMB 210-25 Quat  
EPA Registration No. 47371-24

The Bulletin "FMB 210 Quat," submitted May 28, 1982, in connection with registration under FIFRA, is acceptable, provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

I. First page:

- (a) In the first Table, introduce a line giving the Appropriate EPA Registration Number for the products.

II. Second page:

- (a) In the second paragraph, add the words "Such as" at the end of the paragraph.
- (b) In the third paragraph, replace the words "are sanitizing" with the word "sanitize." Also, make this third paragraph the second paragraph.
- (c) In the fourth paragraph, introduce the words "Inspection Programs" at the end of the first sentence.
- (d) In the fifth and seventh paragraphs, delete the initial phrase "FMB 210 Quats are."
- (e) In the sixth paragraph, add the word "Food" as "Food eggs that have been...."

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- (f) In the seventh paragraph, replace the words "sanitize" and "sanitizing" with the word "wash."
- (g) In the eighth paragraph, you must qualify the statement "It was determined that the FMB 210 Quats contained less than 20 parts per billion (ppb) \_\_\_\_\_, and for the other nine nitrosamines FMB Quats contained less than 100 ppb." (We wonder if "Nitrosodimethylamine (NDMA)" might be appropriate).

III. Third page:

- (a) Give the present/most recent EPA Registration Numbers.
- (b) In the first paragraph, add the initials "FDA" as, "Formulators...for EPA registration, USDA, and FDA Authorization...."

The labels submitted June 2, 1982, in connection with registration under FIFRA are acceptable, provided that you:

1. Make the label changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Delete the phrase "Do not apply in marine or estuarine oil fields" because this pertains to a Suggested Formulation Use (Oil Fields--End Use) which is not suggested on the labels.
  - b. The current/most recent company name and address must appear on the labels. Likewise, the current/most recent EPA Registration Number and Establishment Number.
  - c. Make the instructions for Formulation as extensive on the FMB210-25 label as on 210-15 label. *(add reference to technical Bulletin)*
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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.

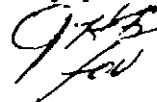
We note that you have added the proposed use "For Formulation of Swimming Pool Algaecides and Mildewcides."

47371-23

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The submitted information clarifies and completes the data reports derived to support efficacy claims indicated in the Technical Bulletin.

Sincerely yours,



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

Enclosures

TS-767C;LEE:DCR-03541;WANG-1231C:ert:Raven:479-2013:11/18/82