

# **Huntington™**

## **FMB 210-15 QUAT** concentrated germicide

FOR FORMULATION OF DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT MICROBICIDES, SWIMMING POOL ALGAEKILLERS AND BLENDBLENDS.

**ACTIVE INGREDIENTS:**

Chloro Quaternary 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 chemical 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. Hazardous if swallowed, or absorbed through the skin. Avoid contamination of food.

**ENVIRONMENTAL HAZARDS**  
This product is toxic to fish. 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 caustic germicide. Do not mix with soap or acidic materials. Do not store or use 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 burning is prohibited. Do not reuse empty containers.

**PESTICIDE DISPOSAL**  
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or waste is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**  
**FIBER DRUMS WITH LIDS**  
Completely empty lid by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into appropriate equipment. Then dispose of lid in a sanitary and safe manner or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

**METAL CONTAINERS**  
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary land fill or by other procedures approved by State and local authorities.

**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 formulation and other information.

EPA REG. NO. 47371-23      EPA EST. NO. 47371-01-01

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870 EAST Tipton      HHS CHEMICALS DIVISION      210-930-0100

INDIANAPOLIS, IN 46208

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ALSO  
EPA Reg. No. 47371-23

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H&S Chemicals Division

# FMB 210 QUAT

Concentrated Germicide

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.

Our 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>	FMB 210-15	FMB 210-25	FMB 210-8
EPA Registration Number	47371-23	47371-24	47371-47
<b>Active Ingredients:</b>			
didecyl dimethyl ammonium chloride	50%	50%	80%
<b>Inert Ingredients:</b>			
ethanol	10%	X	12.5%
isopropanol	X	20%	X
Water	40%	30%	7.5%

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 pre-cleaned 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

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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, federally inspected meat and poultry processing plants, and food processing plants such as:

FMB 210 Quats sanitize 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 federally inspected Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products Inspection Programs. 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.

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.

Food 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.

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

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

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Formulators using this product are responsible for EPA registration, FDA, and USDA authorization for their formulated products. For technical service and registration assistance, contact H&S Chemicals Division at 219/356-8100. 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 this product. Harmful or fatal if swallowed or absorbed through the skin. 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.

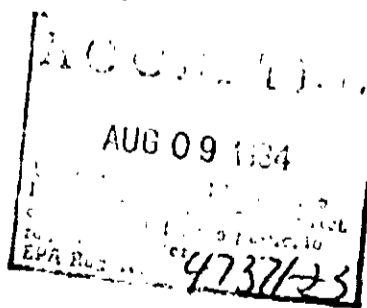
**TOXICITY TEST RESULTS**

Eye Irritation Test: corrosive irritant  
Primary Skin Irritation: severe, corrosive irritant  
Acute Dermal LD<sub>50</sub> = 1.8 ml./kg.  
Acute Oral LD<sub>50</sub> = 0.065 ml./kg.

FMB 210-15 Quat	EPA Reg. No. 47371-23
FMB 210-25 Quat	EPA Reg. No. 47371-24
FMB 210-8 Quat	EPA Reg. No. 47371-47

H&S Chemicals Division  
970 East Tipton Street  
Huntington, Indiana 46750  
219/356-8100

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