



H&S Chemicals Division

FMB 4500 QUAT

FMB 4500 Quats are designed for formulation of disinfectants, sanitizers, fungicides, water treatment biocides, swimming pool algaecides, mildewicides, and field water bleed and pit water disposal products. FMB 4500 Quats consist of an extensive system of alkyl dimethyl benzyl ammonium chlorides. The multi-purpose quats provide you with an efficient chemical for formulation of disinfectant sanitizers.

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.

	FMB 4500-5	FMB 4500-8	FMB 4500-28
Chemical Composition			
EPA Registration Number	47371-16	47371-12	47371-22
Active Ingredients:			
n-Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5%, C ₁₈ 5%) dimethyl benzyl ammonium chloride	50%	80%	80%
ethanol	10%	12.5%	20%
Inert Ingredients:			
Water	40%	7.5%	X

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

The FMB 4500 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.

FMB 4500 Quats are designed for formulation of germicides. For example, disinfectant cleaners in hospitals and nursing homes, as disinfectant cleaners for use in schools and colleges, hotels and motels, office buildings, households, medical and dental offices, veterinary clinics, dairy and poultry farms.

FMB 4500 Quats are effective in disinfecting pre-cleaned hard, non-porous surfaces in 10 minutes with a recommended use solution of 550 ppm active quat for hospital use areas and with a recommended use solution of 400 ppm active quat for general use areas.

ACCEPTED
with COMMENTS
in EPA Letter Dated

AUG 05 1983

Under the Federal Insecticide,
Fungicide, and Herbicide Act
as amended, the pesticide
registered under EPA Reg. No.

47371-22

4737-22

<u>Organism</u>	<u>FMB Quat</u>	<u>No. of Positives</u>	<u>No. of Carriers Tested</u>
Pseudomonas aeruginosa	550 ppm	0	180
Staphylococcus aureus	400 ppm	0	180
Salmonella choleraesuis	400 ppm	0	180
HOSPITAL DISINFECTANT			550 ppm quat
GENERAL OR HOUSEHOLD DISINFECTANT			400 ppm quat
SANITIZATION			200 ppm quat

FMB 4500 Quats are effective against Staphylococcus aureus and E. coli as a sanitizer in 550 ppm hard water as tested by the A.O.A.C. Germicidal and Detergent-Sanitizer Method at 200 ppm quat. In addition to use on food processing equipment and utensils, FMB 4500 Quats may be used on food-contact surfaces in public eating places.

FMB 4500 Quats sanitize pre-cleaned food contact surfaces in one minute with the recommended use solution diluted in water up to 550 ppm water hardness (calculated as CaCO₃) at 200 ppm active quat. FMB 4500 Quats are in compliance with 21 CFR §178.1010 (b) (9) and (c) (6).

FMB 4500 Quats are designed for formulation of sanitizer-cleaners for use in restaurants and bars, dietary areas, dairy and poultry farms, federally inspected meat and poultry processing plants, and food processing plants such as:

For use in plants operating under federally inspected Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products Inspection Programs. FMB 4500 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 in sanitizing dishes, silverware, glasses, and other food utensils at 200 ppm active quat. FMB 4500 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 4500 Quat shall be subjected to a thorough potable water rinse only if they are broken for use in the manufacture of egg products.

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 ~~4737-22~~ soil. Do not dip towel back into sanitizing solution. ^{When solution becomes visibly dirty,} discard and provide fresh solution. _{In Use Only - Do Not}

AUG 05 1983

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

4737-22

FMB 4500 Quats have been tested for ten different nitrosamines including n-nitrosodiethanolamine (NDELA). It was determined that the FMB 4500 Quats contained less than 20 parts per billion (ppb) and for the other nine nitrosamines FMB 4500 Quats contained less than 100 ppb.

Formulators using this product are responsible for EPA registration for their formulated products. For technical service and registration assistance, contact the H&S Chemicals Division at 219/356-8100. A complete registration package is available upon request.

Authorization for use of formulated products in USDA inspected meat, poultry, and food processing plants must be obtained by the formulator from USDA.

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. 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 4500 Quats.

FMB 4500-5 Quat	EPA Reg. No. 47371-16
FMB 4500-8 Quat	EPA Reg. No. 47371-12
FMB 4500-28 Quat	EPA Reg. No. 47371-22

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

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AUG 05 1983

Under the Federal Insecticide,
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HS-1

47371-22

