

Huntington

FMB 4500-5 QUAT concentrated germicide

FOR FORMULATION OF DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT
MICROBICIDES, SWIMMING POOL ALGAEKILLERS, MILL DECONTAMINANTS, OIL FIELD
WATER PRECIPITANT AND SALT WATER DISPOSAL PRODUCTS.

ACTIVE INGREDIENTS:
n-Butyltrimethylammonium chloride (C₁₂H₂₅N) dimethylbenzylammonium chlorides 50.0%

INERT INGREDIENTS:
Total 50.0%

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
Do not use or store near heat or open flame. FMB 4500-5 is a cationic germicide. Do not mix with soap or anionic materials.

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 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 puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

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 EPA registration for their formulated products. Refer to Technical Bulletin T-1171 4500 Quats for instructions for formulation and other information.

EPA REG NO. 47371-16 EPA EST. NO. 47371-16-01
HUNTINGTON CHEMICALS DIVISION
475 EAST TISON HUNTINGTON, W. VA. 25642-2013

NOT FOR SALE
of the Federal Government
under Executive Order 12812
47371-16

FMB 4500 QUAT

FMB 4500 Quat series are designed for formulation of disinfectants, sanitizers, fungicides, water treatment microbicides, swimming pool algaecides, mildewicides, oil field water flocc and salt water disposal products. FMB 4500 Quats consist of an effective system of alkyl dimethyl benzyl ammonium chlorides. The multi-purpose quat is provided 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.

Chemical Composition

EPA Registration Number

Active Ingredients:

n-Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%,
C₁₈ 5%) dimethyl benzyl ammonium
chloride
ethanol

Inert Ingredients:

Water

FMB 500-5	FMB 4500-8	FMB 4500-22
47371-16	47371-12	47371-22
47371-16 OCT 25 1982 Used in accordance with Fungicide label for the pest 50% and 100% for the pest required under EPA Reg. No. 12.5%		
		80%
		20%
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.

<u>Organism</u>	<u>FMB Quat</u>	<u>No. of Positives</u>	<u>No. of Carriers Tested</u>
<i>Pseudomonas aeruginosa</i>	550 ppm	0	180
<i>Staphylococcus aureus</i>	400 ppm	0	180
<i>Salmonella choleraesuis</i>	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 CaCO_3) at 200 ppm active quat. FMB 4500 Quats are in compliance with 21 CFR §178.1010 (b)(9) and (c)(1).

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

For use in plants operating under the USDA 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 dirt and soil. Do not dip towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

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 HSS Chemicals Division at 214/356-8100. A complete registration package is available upon request.

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

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

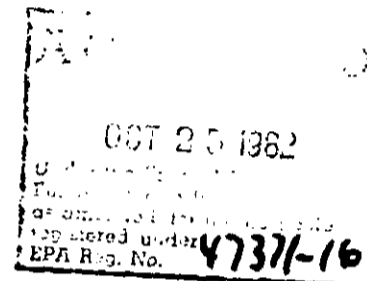
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician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



HS-1