

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

STATEMENT OF FIRST AID TREATMENT

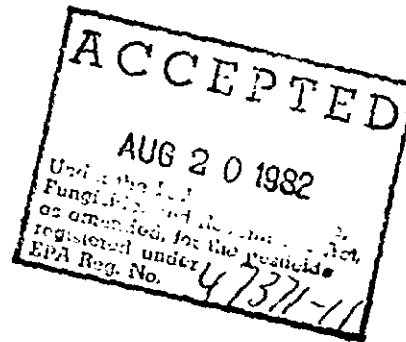
In case of contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician immediately. In case of contact with skin, thoroughly wash with soap and water. Call a physician immediately. If swallowed, drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable peroral *dermatitis* may contraindicate the use of gastric lavage. Measure vital circulation, shock, respiratory depression, and convulsion may be needed.

Consult the label for other instructions and precautionary statements before use of FMB 451 Quats.

FMB 451-5 Quat	EPA Reg. No. 47571-11
FMB 451-8 Quat	EPA Reg. No. 47571-10
FMB 451-15 Quat	EPA Reg. No. 47571-17
FMB 451-23 Quat	EPA Reg. No. 47571-18

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



HIS-1



FMB 451-5 QUAT

concentrated germicide

FOR FORMULATION OF DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT MICROBICIDES, SWIMMING POOL ALGAEICIDES, MILDEWICIDES, OR FIELD WATER FLOOD AND SALT WATER DISPOSAL PRODUCTS

ACTIVE INGREDIENTS

n-Alkyl(14.50%, C12.40%, C16.10%) dimethyl benzyl ammonium chlorides 50.0%

Ethanol 7.8%

INERT INGREDIENTS 42.2%

Total 100.0%

DANGER: KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician immediately. In case of contact, wash skin thoroughly with soap and water after handling. Call a physician immediately. 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. Harmful or fatal if swallowed. Avoid contamination of food.

ENVIRONMENTAL HAZARDS

This pesticide 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 in areas near heat or open flame. FMB 451-5 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 residue 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 for 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 EPA registration for their formulation products. Refer to technical bulletin on FMB 451 Quats for instructions for formulation and other information.

EPA Reg. No. 47371-11 EPA Est. No. 47371-N01

H & S CHEMICALS DIVISION
HUNTINGTON, IN 46750

HS-III

ACCEPTED
AUG 20 1982
EPA Reg. No. 47371-11



H&S Chemicals Division

FMB 451 Quats

FMB 451 Quats are designed for formulation of germicides, disinfectants, fungicides, water treatment chemicals, and disinfectant cleaners for use in oil field water treatment and water distribution systems. FMB 451 Quats consist of an effective system of active ingredients which are suitable for use for the purpose of providing you with an efficient chemical for formulation of disinfectant-sanitizers.

Our Quats, Quatsol, are available in a variety of sizes and concentrations, chemically stable and easy to use. They are available in a variety of sizes for your field use applications.

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 ACCO-BP-10
 EPA Reg. No. 47571-11

Chemical Concentration	FMB 451-5	FMB 451-8	FMB 451-15	FMB 451-28
EPA Registration No.	47571-11	47571-10	47571-17	47571-13
Active Ingredients:				
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₀ 10%) dimethyl benzyl ammonium chloride	50%	80%	50%	80%
ethanol	7.5%	12.5%	10%	20%
Inert Ingredients:				
Water	42.5%	7.5%	40%	X

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

The FMB 451 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 451 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 451 Quats are for disinfecting pre-cleaned hard, non-porous surfaces in 10 minutes with a recommended use solution of 800 ppm active quat for hospital use areas and with a recommended use solution of 400 ppm active quat for general use areas.

Organism	FMB Quat	No. of Positives	No. of Carriers Tested
<i>Pseudomonas aeruginosa</i>	800 ppm	0	180
<i>Staphylococcus aureus</i>	400 ppm	0	180
<i>Salmonella choleraesuis</i>	400 ppm	0	180

Registration Division (45-767)

FMB 451 Quats 200 ppm of
active ingredient in water 400 ppm of
FMB 451 Quats 200 ppm of

FMB 451 Quats are effective against *Staphylococcus aureus* and *Escherichia coli* in 15-30 minutes. Do not use on surfaces treated by the A.O.A.C. Sanitizing and Disinfecting Sanitizer. Do not use on equipment. Do not use on food contact surfaces in public eating places.

FMB 451 Quats sanitize food contact surfaces in one minute with the recommended solution diluted in water up to 750 ppm water hardness (calculated as CaCO₃) at 20°C and 170°C. FMB 451 Quats are in compliance with 21 CFR 178.1010 (b)(9) and (c)(1).

FMB 451 Quats are for use in restaurants, hotels, homes, schools, day care centers, farms, law enforcement, and other plants, and for agricultural plants such as:

For use in plants operating under the USDA Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products. FMB 451 Quats are for use as a sanitizer on all surfaces not always requiring a rinse. Before using these compounds, food products and packaging material 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 200 ppm active. FMB 451 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 451 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 451 Quats have been tested for ten different nitrosamines, including n-nitrosodichloroethanolamine (NDCE). It was determined that the FMB 451 Quats contained less than 20 parts per billion (ppb) NDCE and for the other nine nitrosamines FMB 451 Quats contained less than 200 ppb.

Formulators using this product are responsible for EPA registration and use authorization for their formulated products. For more information, contact the Herndon, Virginia, office of the EPA, Office of Pesticide Registration, Washington, DC 20460. A complete registration listing 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.