

Huntington

FMB 3328-28 QUAT concentrated germicide

FOR FORMULATING DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT MICROBICIDES,
MILDCIDERS, AND SWIMMING POOL ALGACIDES

ACTIVE INGREDIENTS:

n-Alkyl (C14 60%, C16 30%, C12 5%, C18 5%) dimethylbenzyl ammonium chlorides	40.0%
n-Alkyl (C12 68%, C14 32%) dimethylethylbenzyl ammonium chlorides	40.0%
Ethanol	20.0%
Total	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

Do not use or store near heat or open flame. FMB 3328-28 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 rinseate 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

Formulators using this product are responsible for EPA registration for their formulated products. Refer to technical bulletin for FMB 3328 QUATs for instructions for formulation and other information.

EPA REG. NO. 47371-20

EPA EST. NO. 47371-W-01

MS-11

HHS CHEMICALS DIVISION

970 EAST TIPTON

HUNTINGTON, IN 46750

219/336-3700

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 26 1982

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

47371-20



H&S Chemicals Division

FMB 3328 QUAT

FMB 3328 Quat Series are designed for formulation of disinfectants, sanitizers, fungicides, water treatment microbicides, mildewcides, and swimming pool algocides. FMB 3328 Quats consist of a dual quaternary system of alkyl dimethyl benzyl ammonium chlorides and alkyl dimethyl ethylbenzyl ammonium chlorides. This combination of quats working together provides a synergistic effect for 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>	<u>FMB 3328-5</u>	<u>FMB 3328-8</u>	<u>FMB 3328-28</u>
Active Ingredients:			
n-Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5% C ₁₈ 5%) dimethyl benzyl ammonium chloride	25%	40%	40%
n-Alkyl (C ₁₂ 68%, C ₁₄ 32%) dimethyl ethylbenzyl ammonium chloride	25%	40%	40%
ethanol	X	12.5%	20%
Inert Ingredients			
Water	50%	7.5%	X

The FMB 3328 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 3328 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 3328 Quats are for 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 450 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>	450 ppm	0	180
<i>Salmonella choleraesuis</i>	450 ppm	0	180

HOSPITAL DISINFECTION	550 ppm quat
GENERAL OR HOUSEHOLD DISINFECTION	450 ppm quat
SANITIZATION	200 ppm quat

FMB 3328 Quats are effective against *Staphylococcus aureus* and *E. coli* as a sanitizer in 750 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 3328 Quats may be used on food-contact surfaces in public eating places.

FMB 3328 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 3328 Quats are sanitizing pre-cleaned food contact surfaces in one minute with the recommended use solution diluted in water up to 750 ppm water hardness (calculated as CaCO₃) at 200 ppm active quat. FMB 3328 Quats are in compliance with 21 CFR §178.1010 (b)(11) and (c)(8).

For use in plants operating under the USDA Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products. FMB 3328 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 3328 Quats are for use sanitizing dishes, silverware, glasses, and other food utensils at 200 ppm active. FMB 3328 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 3328 Quat shall be subjected to a thorough potable water rinse only if they are broken for use in the manufacture of egg products.

FMB 3328 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 3328 Quats have been tested for ten different nitrosamines including n-nitrosodietylamine (NDEL). It was determined that the FMB 3328 Quats contained less than 20 parts per billion (ppb) and for the other nine nitrosamines FMB 3328 Quats contained less than 100 ppb.

Formulators using this product are responsible for EPA registration and USDA authorization for their formulated products. For technical service and registration assistance, contact the BAS Chemicals Division at 219/396-5100. 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: Probably 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 3328 Quats.

FMB 3328-5 Quat	EPA Reg. No. 47371-19
FMB 3328-8 Quat	EPA Reg. No. 47371-14
FMB 3328-28 Quat	EPA Reg. No. 47371-20

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:

NOV 28 1992

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

47371-20



26 NOV 1982

H & S Chemicals Division
970 East Tipton Street
Huntington, IN 46705

Attention: Richard D. Sheets

Gentlemen:

Subject: FMS 3328-28 Quat Concentrated Germicide
EPA Registration No. 47371-20
Your Submission Dated August 4, 1982

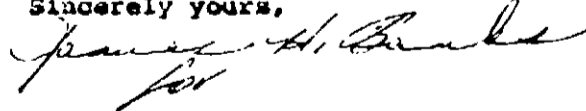
The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. At the bottom of page one the company name, H & S Chemicals Division, must appear before the address.
3. 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 bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



John H. Lee
Product Manager (J1)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

TS-767C:JHLee:DCR-03566:WANG-0080C:lwy:Raven:479-2003:00/06/82